Lupton

Steel
FACTORY EQUIPMENT

SHELVING
BINS RACKS

BENCH LEGS
BENCH DRAWERS
TOOL STANDS
TOOL CABINETS
ETC.

CATALOGUE C

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Lupton

INVESTMENT VALUE

STEEL SHELVING

With Bolted Adjustment

Open or Rack Type
Closed or Bin Type

R. T. TRIMBLE, Mgr.
DAVID LUPTON'S SONS CO.,
1633 BOATMEN'S BANK BLDG.,
ST. LOUIS, MO.

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Catalogue C

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CLEVELAND
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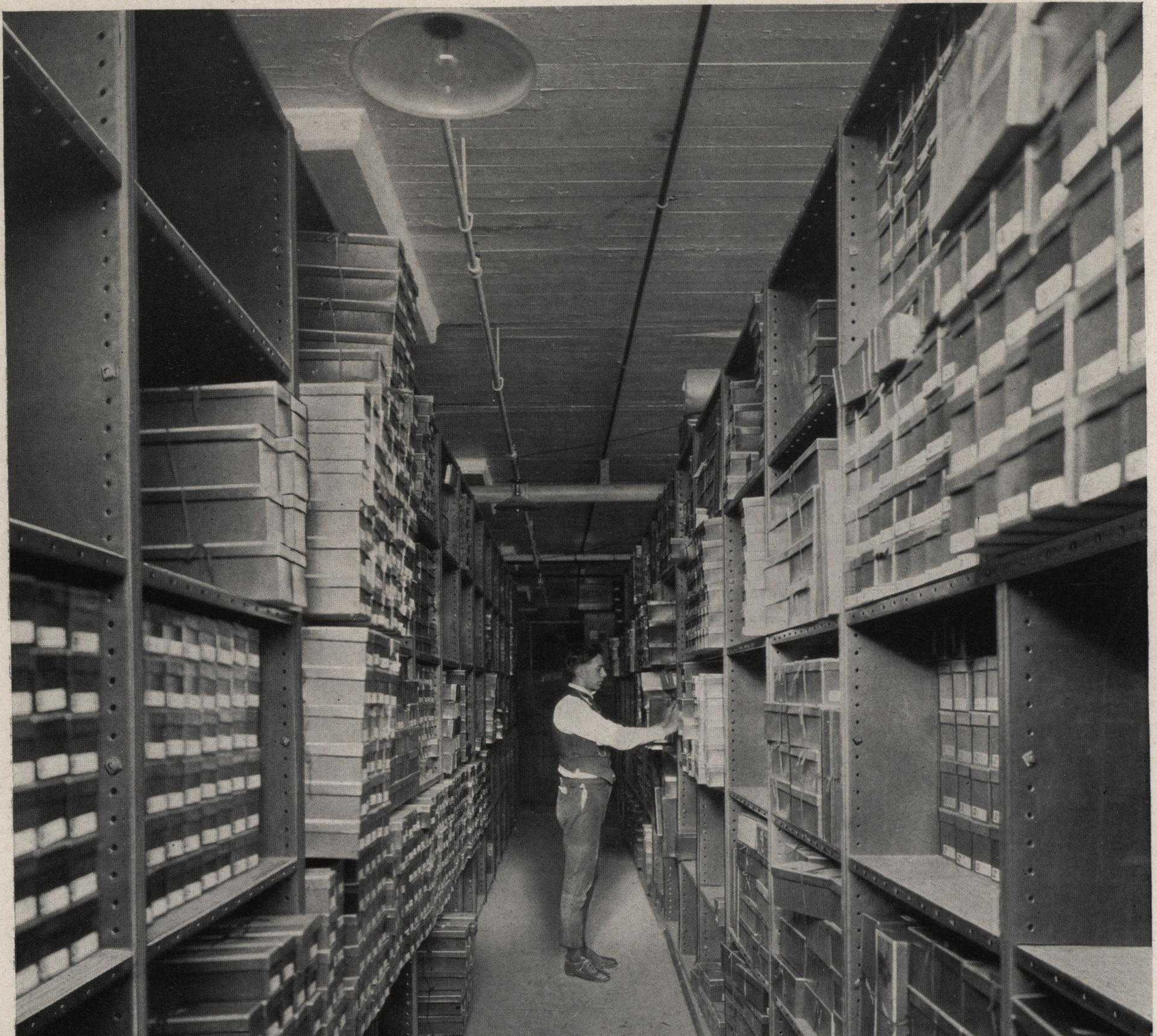
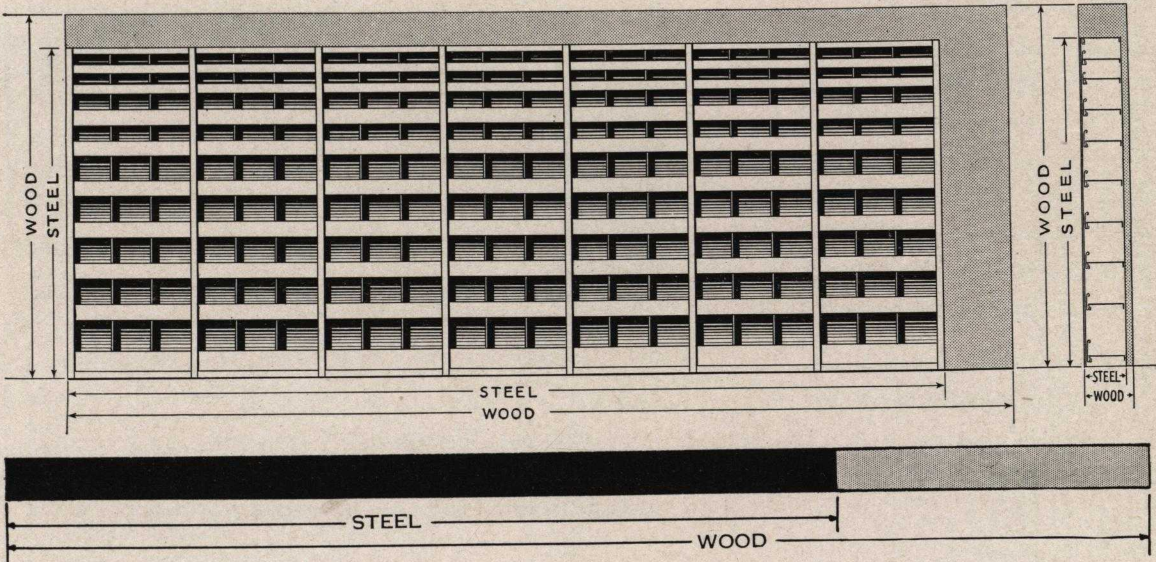


Lupton Bin Type Steel Shelving in stock room of Notaseme Hosiery Co., Philadelphia.

LUPTON STEEL SHELVING



Comparison of space occupied by wood and steel shelving. The steel shelving, occupying 175 cu. ft., has 159 cu. ft. capacity. Wood shelving similarly divided would occupy 231 cu. ft., an excess of 32 per cent.

Steel Versus Wood Shelving

THE initial cost of steel shelving is usually somewhat greater than that of wood. Despite this fact, steel shelving is much more economical in the end, except for purely temporary installations.

Any reasonably well-built steel shelving has certain inherent advantages over wood, which are listed below. Among the various types of steel shelving, the Lupton product has certain special advantages which will be mentioned presently.

The *general* advantages of steel shelving are as follows:

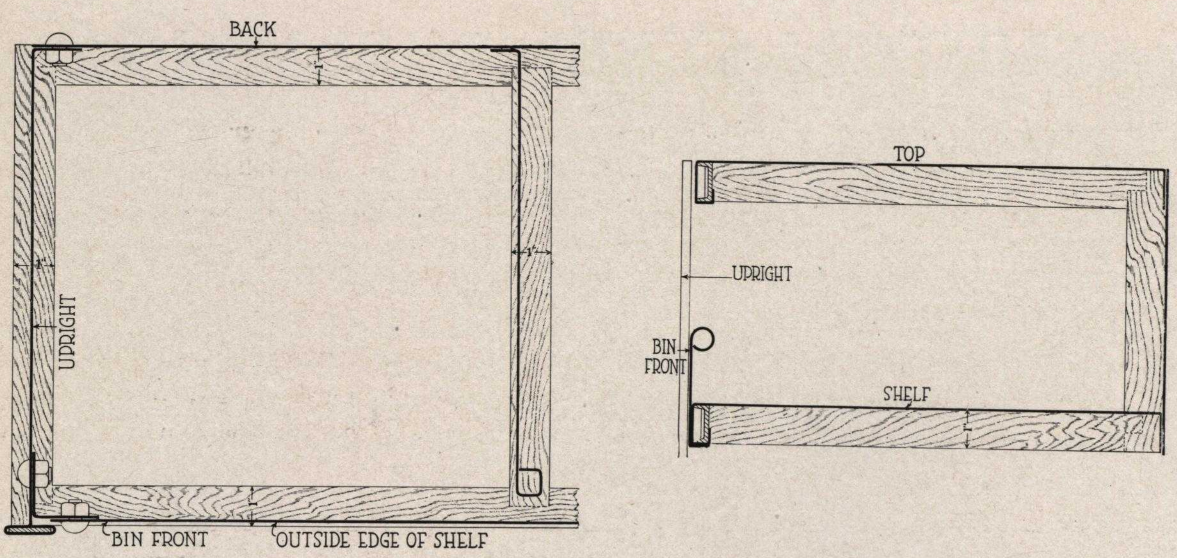
1. It has from 10 to 30% greater useful storage space,
2. Has much longer life, especially under rough usage,
3. Acts as fire retarder,
4. Does not splinter,
5. Can be taken down and re-erected without injury,
6. Can be adjusted for changes of material on shelves,
7. Encourages orderly habits and neatness of employes.

1. Greater Storage Capacity

This is very marked where shelves and partitions are set close together. In the diagram above, the shaded areas indicate the additional space which would be required by wood shelving with partitions and shelves 1-inch thick. To secure this, additional floor space would have to be provided, and possibly higher ceilings also. In other words, the added floor space required would be a permanent rental charge against the wood shelving.

In case the floor space is already fixed, steel shelving will make it correspondingly more efficient.

In case of changes in materials, it often happens that the bins do not accommodate the new materials to advantage. With wood shelving this results in a still further loss of useful capacity, because wood shelving cannot be readjusted.



Wood shelving must generally be made of material 1-inch thick or more. With small divisions this results in a great waste of space. In these two drawings steel and wood shelving are contrasted. Details show Lupton Bin Type Shelving.

2. Longer Life

Wood shelving splinters and splits under hard usage, and soon reaches a dilapidated condition. Steel shelving, properly proportioned for its work, is substantially permanent.

3. Resistance to Fire

In case of fire, steel shelving does not feed the flames. Unless the materials are highly inflammable, fire starting in one bin is likely to die out without spreading further. At the worst, the spread of flames is retarded.

4. Freedom from Splintering

Certain materials, like rubber and woolen goods, require wood bins to be lined with copper or zinc to protect the contents. This makes even the first cost of steel shelving less than that of wood plus lining.

5. Easy Re-Erection

Every growing industrial concern finds it necessary occasionally to re-erect its shelving for changes in layout or product. With steel shelving, removal and re-erection of sections or individual units are easily accomplished with no damage to the shelving. Wood shelving, even if it be removed bodily, always suffers in the process.

6. Easy Readjustment

Readjustment of individual shelves to suit changes in product is likely to be needed oftener than complete relocation. With certain types of steel shelving readjustment is easy: with wood shelving it is impossible.

7. Neat Appearance

The moral value of wholesome and attractive surroundings is today generally recognized. It is incongruous to devote pains to attractive exteriors, flower beds, fresh paint, and orderly systems of handling, and at the same time expect the employes to make constant use of storage facilities in a condition of semi-wreckage.

If the material saving due to the above features be capitalized, especially the freedom from deterioration and the 100% salvage value of steel shelving on re-erection, it will usually be found that steel shelving is much more economical than wood. Its sanitary qualities, and the moral value of orderly storage remain as clear gains.

Lupton Bolted Steel Shelving

STORAGE requirements are not alike. According to the bulk, weight, and general character of the materials stored, and the likelihood of changing the materials, one or another type of shelving will be found most nearly suited to the requirements.

Certain features, however, are desired by the great majority of users, and are so likely to be needed that they should be carefully studied before the steel shelving is selected.

These most common requirements are as follows:

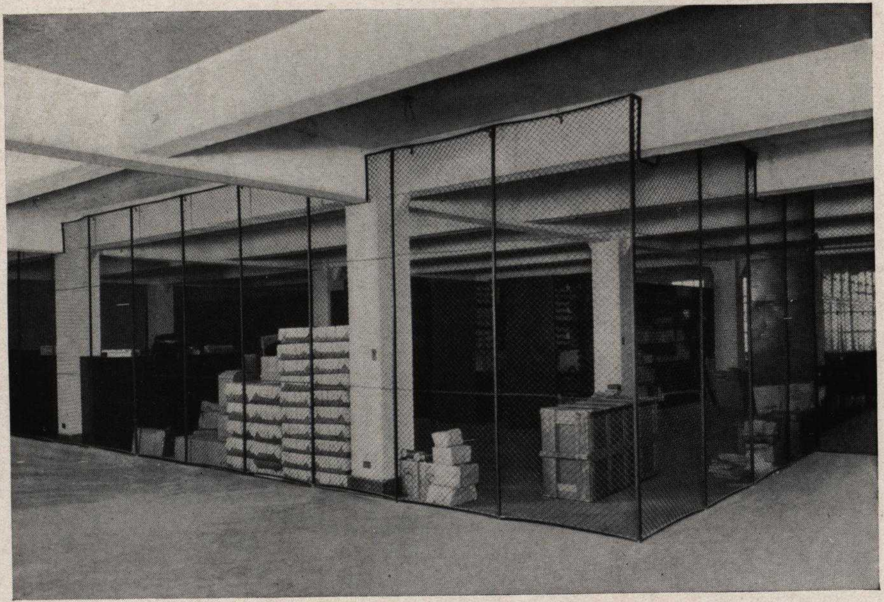
Rigidity,
Load-carrying ability,
Resistance to rough usage,
Few and simple parts,
Easy and simple erection,
Easy re-erection on a new site,
Easy readjustment of individual shelves.

1. Rigidity

This relates especially to the commonly-used Closed or Bin Type, since that type is never braced in front. It is, of course, rigid at the sides and back; but its stiffness in front depends on whether or not the front reinforcements of the shelves are rigidly secured to the uprights. Obviously a rigid construction will safely bear a heavier load than a non-rigid construction.

2. Load-Carrying Ability

This is of prime importance where heavy materials are to be stored. A flat steel sheet has little load-carrying ability in itself. Its strength is in reality the strength of its free front (and sometimes back) edges. The strength of these is in turn dependent, first, on the form of reinforcement used; second, on the way in which the reinforcement is incorporated into the structure of the shelf so that



Lupton Bin Type Steel Shelving in stationery storeroom of The New York Trust Company, New York City. Grill work also supplied by David Lupton's Sons Co.

each helps the other. Mere thickness of the sheet is worth very little unless the design is right.

3. Resistance to Rough Usage

In the hands of factory employes, the shelving must be fool-proof, for no one expects to treat it with special care. Heavy articles will be dropped on the shelves, trucks may strike the uprights, and anything that a man can lift may be piled on top. Adequate strength and good design are necessary to resist such treatment. If, however, the shelving is adequate, it will last indefinitely with small depreciation.

4. Few and Simple Parts

A simple design which is also strong and rigid is inherently desirable. It is usually cheaper to manufacture, and it is always easier to erect.

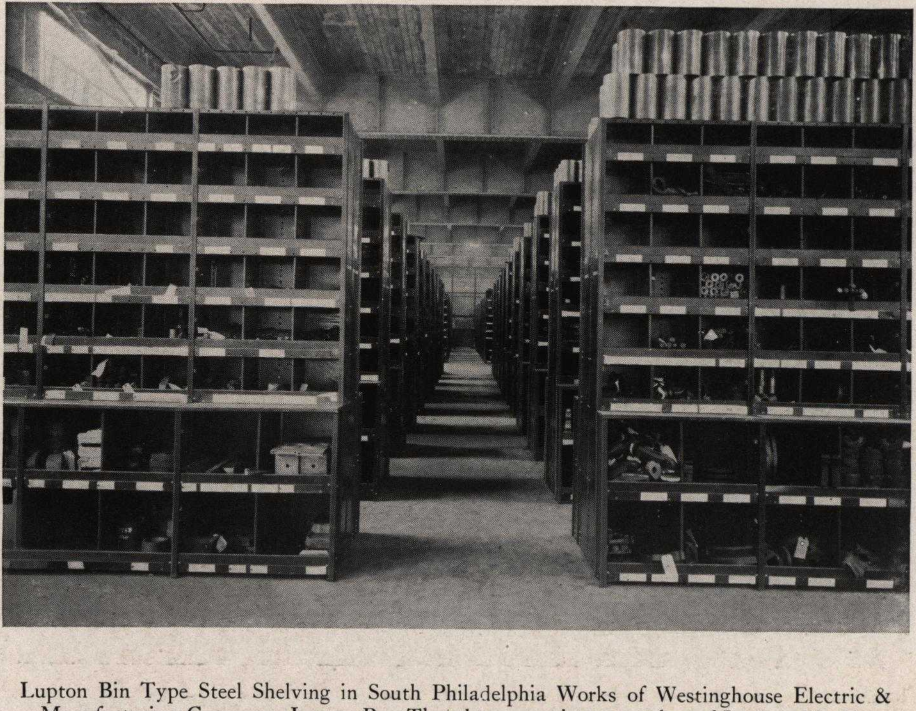
The simplicity of design of Lupton Bolted Steel Shelving, and the scientific reinforcement and tying together of its parts, are among its most striking features.

5. Easy and Simple Erection

Shelving that the purchaser can erect with his own help, using only a simple instruction sheet, is decidedly more economical than shelving which must be erected by the manufacturer.

Any growing concern is liable to have to move its shelving several times during the life of the plant, and the manufacturer can be depended on only for the initial erection.

If the parts are few and simple, if the construction is accurate, and if the small parts liable to be lost are only such as can be bought at any hardware store, the erection problem almost solves itself.



Lupton Bin Type Steel Shelving in South Philadelphia Works of Westinghouse Electric & Manufacturing Company, Lester, Pa. The plant contains a number of Lupton Bin Type Shelving groups, distributed throughout the various buildings.

6. Easy Re-Erection on a New Site

If re-erection to suit the needs of a growing plant is known to be a simple task, it will be undertaken without hesitation when it becomes necessary; whereas, if difficulty be anticipated, it will be postponed as long as possible, at the sacrifice of efficiency.

If the shelving is liable to be moved several times, a low labor cost for each move may in time save the entire first cost of the shelving, as compared with moving a more complicated type.

7. Easy Readjustment of an Individual Shelf

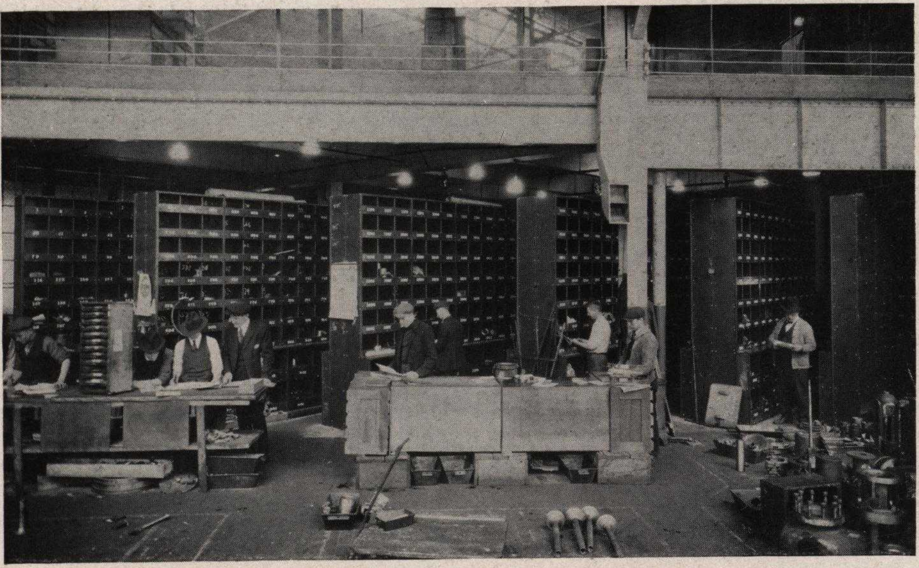
It is seldom practicable permanently to store the same or similar goods on a given shelf. Changes in floor layout will be occasionally required; changes will occur in material stored; and these changes will require the shelves to be lowered or raised in order to hold the new contents to advantage.

Where individual shelves cannot be readily raised or lowered the result is either a loss of storage capacity or the incurring of considerable expense to dismount, perhaps, an entire section of shelving in order to move a small group of shelves. Rather than incur this inconvenience, the shelves will generally be used to a fraction of their maximum capacity.

It is a safe statement that the average shelving, which has been standing some years, is not used to more than 50 per cent of its capacity.

Lupton Bolted Steel Shelving presents the most effective combination of the advantages above outlined. Its parts are few in number; the reinforcements are incorporated permanently into the structure of the shelves and uprights; and it can be erected by unskilled labor using ordinary supervision and the instruction sheet which we furnish. The only small parts liable to be lost are machine bolts, such as any hardware store can furnish.

The design is such as to give unusual strength and rigidity with moderate weight of metal, owing to the scientific placing of metal at points of maximum stress. In tests, units of Lupton Bolted Shelving have been loaded far beyond their rating without injury.



A group of Lupton Bin-Type Shelving, located in an angle where two wings join.

Construction of Lupton Bolted Shelving

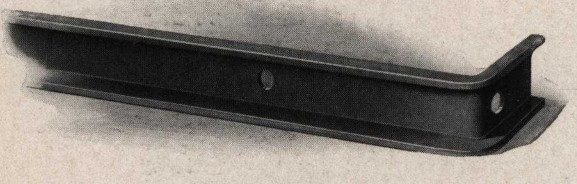
Open or Rack Type

THE uprights are T-bars, hot rolled from medium carbon steel and free from internal strains due to cold forming. The stem is punched on 1½-in. centers for attaching the shelves.

The shelves have the front and back edges formed tightly and permanently over a specially rolled channel bar reinforcement. Like the uprights, this channel bar is hot rolled and free from initial strains. Its ends are bent at right angles, and the supporting bolts pass through them, binding both the channel bars and the sheet metal to the uprights.

The strength of this construction is threefold:

(1) The sheet is tied to the reinforcement, and cannot draw or slip past it under load; (2) the strain at the corners is carried by the reinforcement, hence there is no tendency for the shelf flanges to tear; (3) the rigid channel, rigidly attached to the uprights, tends to brace the whole structure. Owing to the last-named point, only small gusset braces are required to prevent lateral sway.

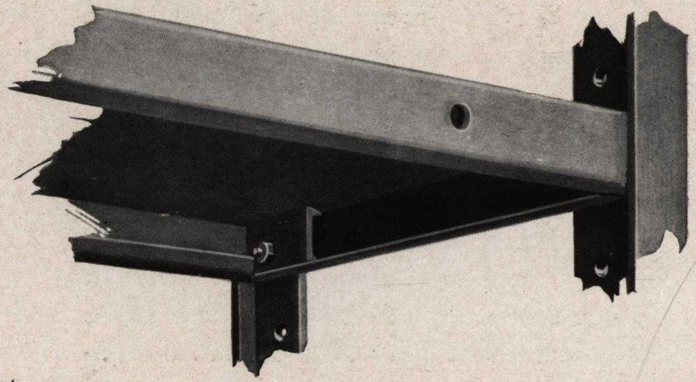


Channel reinforcement of Lupton Bolted Type Shelving. The channel bars are bent back at the ends, and the supporting bolts pass through them. The channel bars and shelf body form a permanent, integral unit, supported at the points of greatest strength.

The ends of the shelves are flanged down, and then back for additional strength.

The standard bracing of the Open Rack Type is shown in the photograph. The diagonal stays and gusset plates may be located at the points shown, or at other points where they will not interfere with storage.

Where units are 30 inches or more from front to back, horizontal partition plates can frequently be utilized for the transverse bracing. Such partitions need not be applied to all shelves; it is sufficient if they be applied to two. This permits omission of the gusset plates.

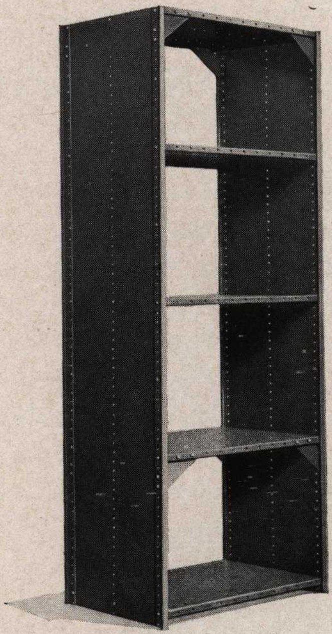


Detail of T-Bar uprights, showing attachment of channel reinforcements.

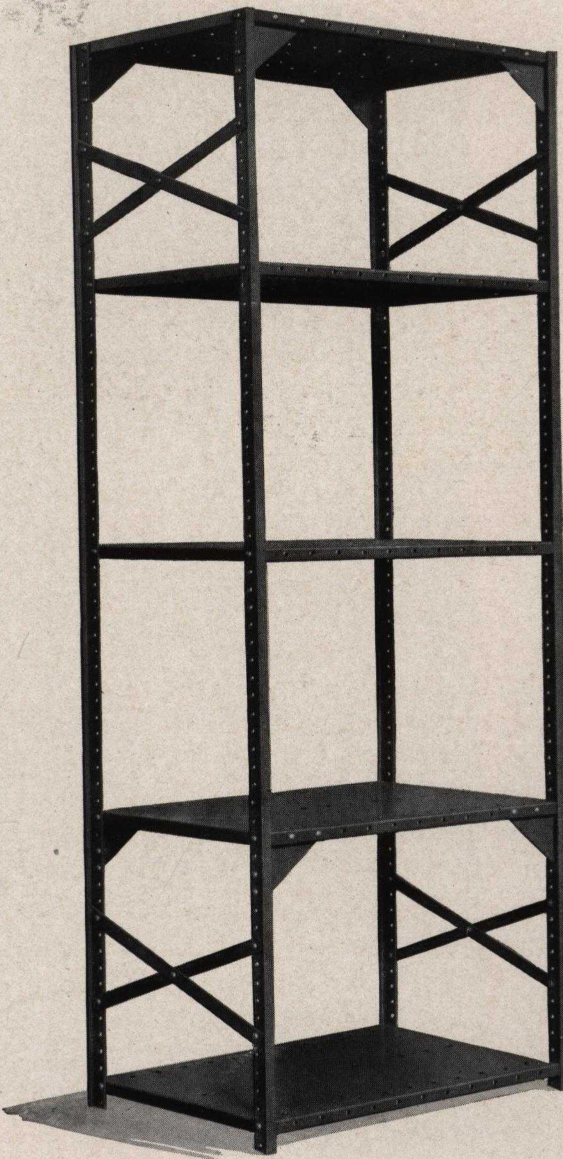
This type of shelving can be furnished with detachable side and back sheets for converting it to the closed type. Either may be ordered without the other if desired. The side sheets are attached directly by bolts to the uprights, and the back sheet is attached by angle clips, using the holes already punched in the uprights.

Where the nature of the materials stored permits it, racks of angle bars can be furnished instead of sheet steel shelves. An example is shown in the installation of the Q. R. S. Music Roll Company on page 21. The same construction can be used for pattern racks in foundries, making the cost of the steel racks approximately the same as wood.

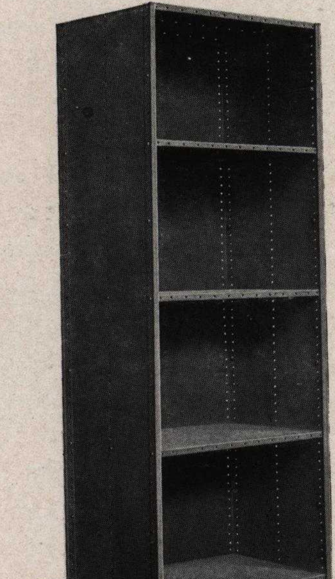
The Open Rack Type is shipped completely knocked down, and is assembled entirely by bolts.



Lupton Rack Type, Steel Shelving with removable side sheets added.



Lupton Rack Type Bolted Steel Shelving. This unit is 3 feet wide, center to center of uprights; 24 inches deep, and 8 feet high. For other standard dimensions, see table on page 14. Standard bracing includes gusset plates and diagonal stays as shown: these may be located higher or lower if desired.



Lupton Rack Type Steel Shelving with removable sides and back added.

Closed or Bin Type

THIS is the most used type of shelving, and it illustrates most clearly the simplicity of Lupton construction.

Instead of furnishing loose attachable sides and back, which contribute nothing to strength, the sides and back themselves form the uprights. The front edges of the sides are formed permanently around flat reinforcing bars of higher carbon steel than could be used in metal to be worked cold. The effect is practically a T-bar construction with strength to support the shelves and resist shocks. The back edges of the side uprights are flanged and bolted through the back upright, which is a flat sheet.

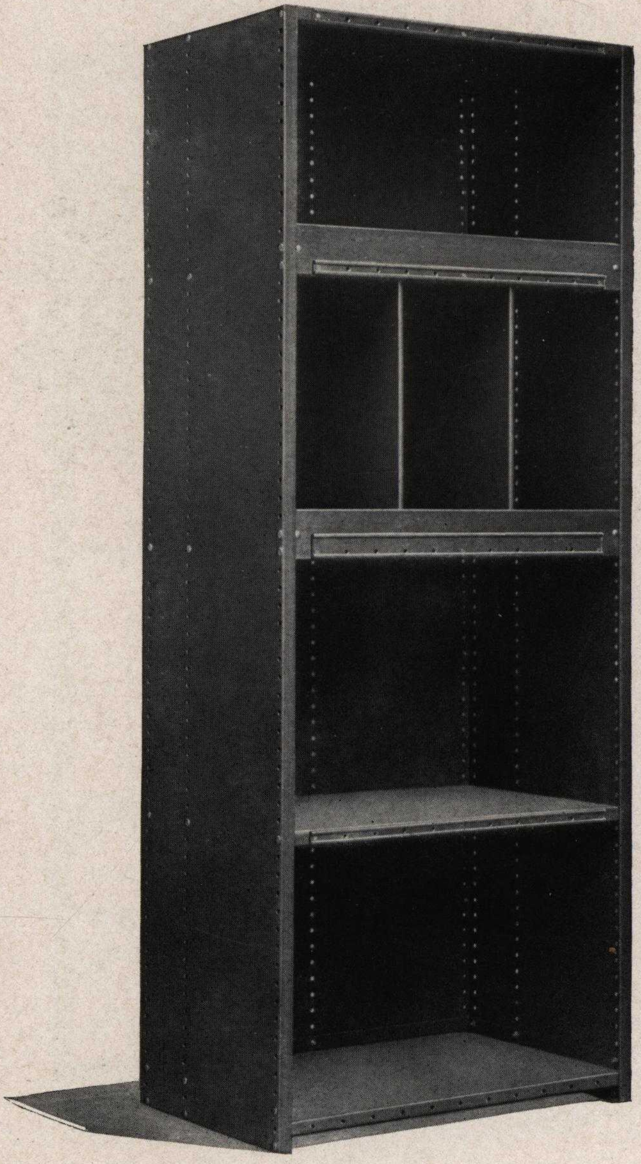
The front edges of the shelves are reinforced by the same channel bar as described in connection with the Open Rack Type. The channel is bent back at both ends and bolted solidly to the side uprights, this feature being exactly the same as in the Open Rack Type.

Each shelf is flanged downward at the ends, and each flange is bolted at the back to the side upright. Shelves deeper than 18 inches from front to back are supported by an intermediate bolt in each end flange.

The back edge is also flanged downward, and is bolted to the back upright at each corner, using the same bolts that tie the uprights together. Another bolt is used in the middle. Thus every flange is a self-contained beam, and no stresses are transmitted around the back corners from one flange to another.

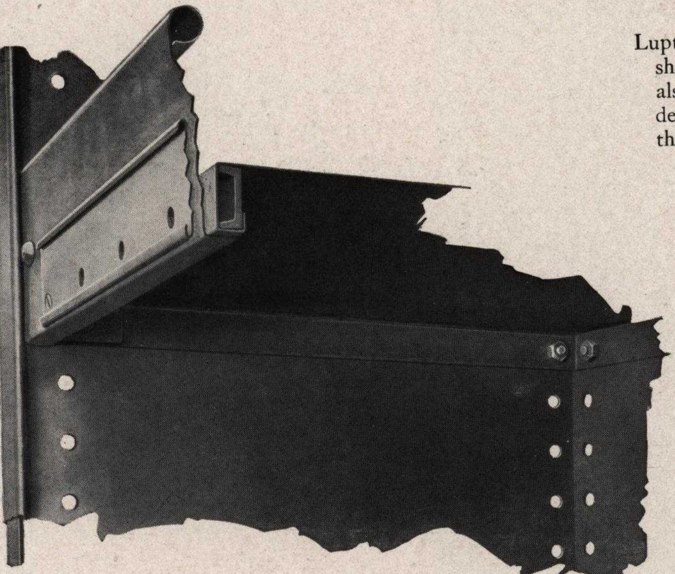
The general arrangement of the side and back uprights of Lupton Bin Type Shelving, also the bin fronts and partitions, is shown in the line drawings comparing wood and steel shelving, on page 4.

Lupton Bin Type Shelving is shipped completely knocked down and is assembled by bolts.

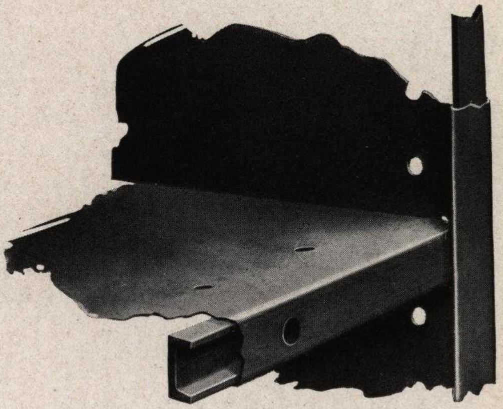


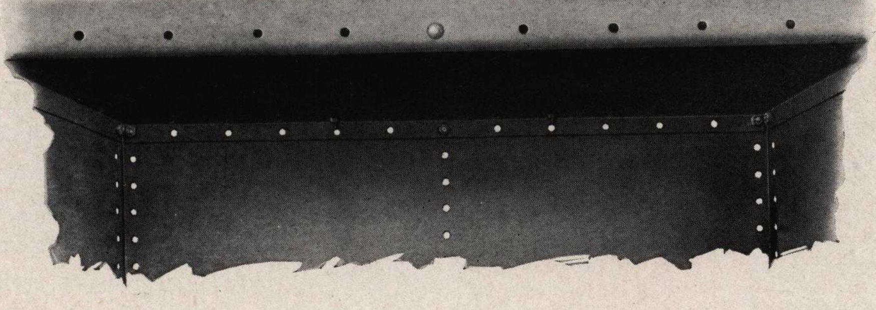
Lupton Closed or Bin Type Bolted Steel Shelving. This unit is three feet wide, center to center of uprights; 24 inches front to back, 8 feet high. For other standard and stock sizes see table, page 14.

Lupton Bin Type Shelving. View underneath left end of shelf, showing channel reinforcement, bin front and label holder, also bolts supporting end flange. Shelf shown is 18 inches deep. For deeper shelves an intermediate bolt is added in the end flange.



Lupton Bin Type Steel Shelving. Detail of right front corner of shelf, showing reinforcement at front of side upright; also channel reinforcement of shelf.





Lupton Bin Type Steel Shelving, showing back flange of shelf with its three supporting bolts.

Attachments for Lupton Steel Shelving

Bracket and Bolted Types

LUPTON Steel Shelving can be modified by means of the attachments described below to adapt them to a great variety of uses. The original installation can be suited exactly to the materials to be stored, and a change in these materials involves at most only minor changes in attachments. Thus the permanency of steel entails no sacrifice of future adaptability.

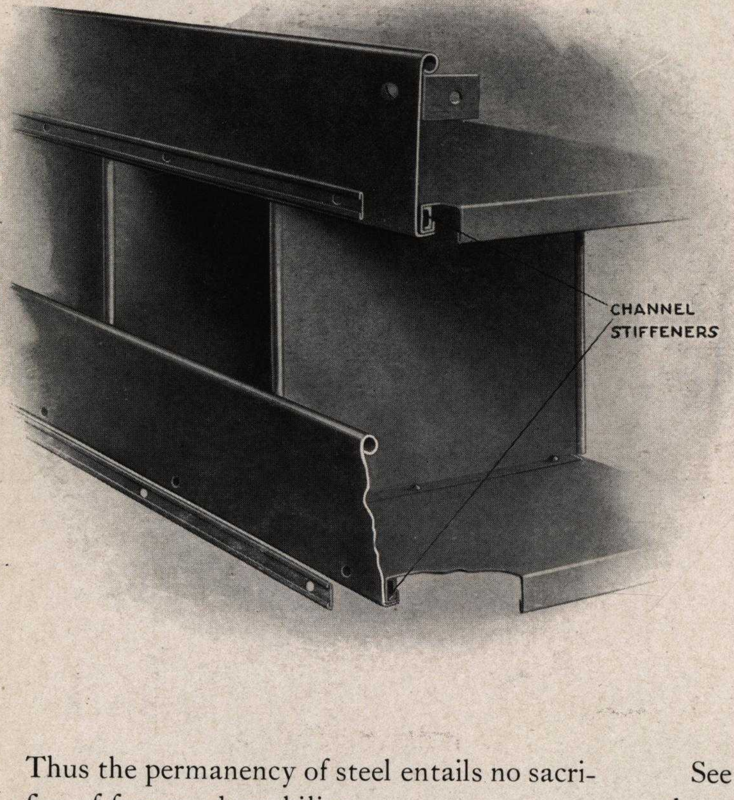
Both shelving and attachments are designed so that the latter may be added or removed with minimum effort and by using the minimum number of parts.

Prices are quoted without attachments, thus making it easy to compute the total cost by adding the attachments required.

Removable Sides and Back

These apply only to the Rack Type, which may be converted into semi-closed or fully-closed type by adding the loose sides and back. If a future conversion from closed to open type, or *vice versa*, is anticipated it can be provided for by this means.

See page 9 for views of Rack Type Shelving thus modified.



Lupton Bin Type Shelving, showing method of attaching Bin Fronts and Label Holders. The body of the shelf is formed tightly around the channel, making the channel a permanent part of the shelf. This integral construction is a Lupton Feature. See page 11.

Bin Fronts

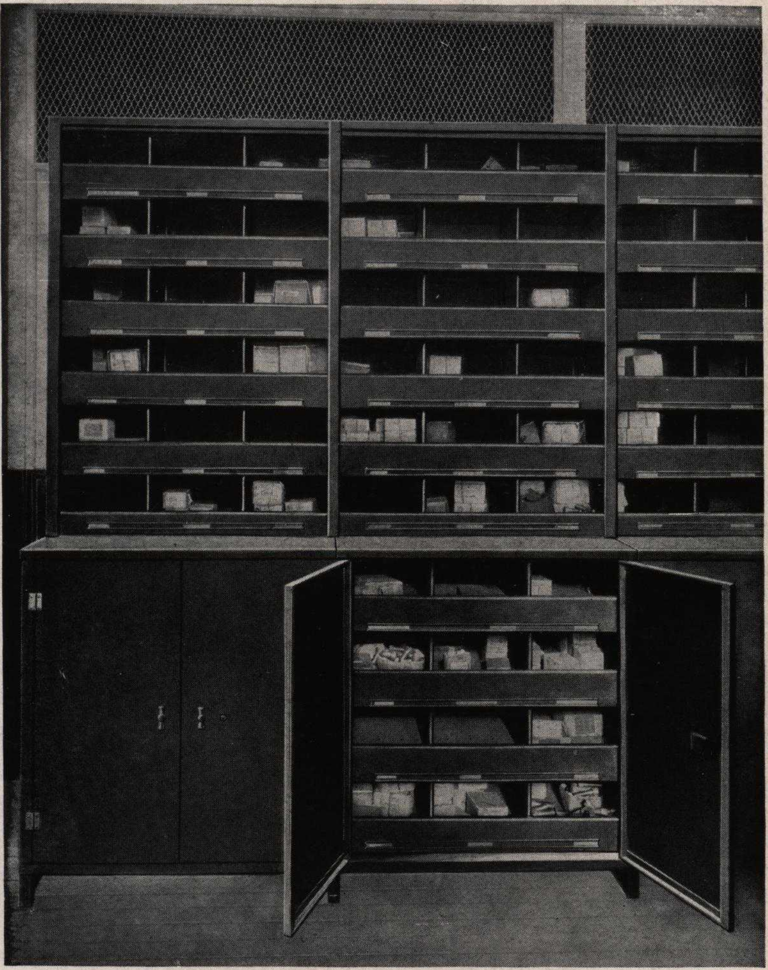
Bin Fronts may be attached at any time to the Bin Type and to the Rack Type with closed sides. They are put in without disturbing the shelf or the adjacent bin front. The bottom edge is flanged and slips under the shelf, helping to stiffen it. The top is stiffened by a large roll, making it self-supporting without attachment to the partitions.

Standard heights are 3 and 6 inches above the shelf.

Partitions

These have a rolled front edge and a flanged back edge. They are attached by bolts to the shelves at top and bottom, the shelves being perforated with rows of holes on 3-inch centers for that purpose. They are made in multiples of 3 inches high, *i.e.*, 6, 9, 12 inches, etc.

Both the bin fronts and the partitions have sufficient strength in their rolled edges so that they do not depend on each other for support. Either the bin fronts or the partitions may be omitted without sacrificing the strength of the other.



American Brass Company, Waterbury, Conn. Lupton Bin Type Shelving with counter extensions and doors. Locks are not shown, but may be added if desired.

Label Holders

Standard label holders are 1 and 2 inches high. They are attached to shelves or bin fronts by countersunk head bolts. Label holders of special heights will be furnished at an extra price.

Counter Extensions

These are used both for additional storage capacity and to provide easy means of reaching the upper shelves without a ladder. They are constructed like the shelving, with similar side uprights, but with backs open to connect with the shelves behind them. They are furnished with shelves, adjustable in height, which form extensions of the main shelves and are in fact bolted to the latter by their flanges.

Doors, with or without locks, will be furnished with Counter Extensions if desired. See illustration on this page.

Counter Extensions are usually 39 inches high. They are made in the same widths as standard shelving (see table, page 14), and are usually 6, 9 or 12 inches front to back. They are used only with Bin Type Shelving. The narrow extensions are largely used as rests when handling heavy tote boxes.

Information for Ordering

INTENDING purchasers will consult their own interests by giving us the fullest possible information about the use to which they intend to put the shelving.

With this information we can advise customers regarding the width and spacing of shelves, the gauges of metal required, and the most economical details and general arrangement.

Desired information includes the following:

1. Nature of article to be stored,
2. Maximum weight and size of single article handled, if these are considerable,
3. Maximum load per square foot (this is important because the shelf area must bear a certain relation to the weight carried. The smaller the area, the higher the permissible load per square foot, other things being equal),
4. Preferred width and depth of shelves,
5. Available height under sprinklers and other obstructions,
6. Number of shelves per unit,
7. Requirements in detail of Bin Fronts, Label Holders and Partitions,
8. Height and depth of Counter Extensions if any, also number of shelves in same,
9. Any desired special equipment, such as detachable sides and backs for Rack Type Shelving, doors for Counter Extensions, transverse partitions for double-depth shelving, and locks for doors.

A floor plan, showing windows, doors and columns, will frequently aid us to recommend the most efficient layout, with the necessary aisles for trucks.

Standard Sizes of Lupton Bolted Steel Shelving

Height	Width	Depth
48″	18″	12″
54″	24″	15″
60″	30″	*18″
66″	*36″	21″
72″		*24″
78″		27″
84″		30″
90″		33″
*96″		36″
102″		
108″		
114″		
*120″		

Widths are from center to center of uprights.

Bin Type Shelving is carried in Warehouse Stock in sizes marked*.

Standard Finish for all Lupton Steel Shelving is olive drab oven-dried enamel.

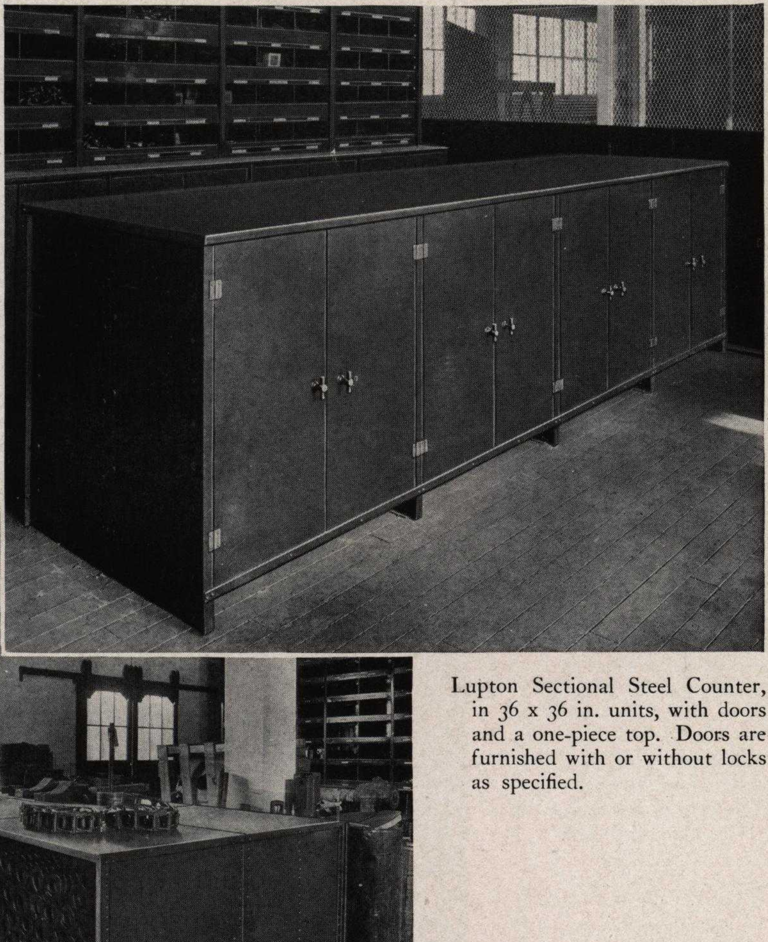
Lupton Sectional Steel Counters

THESE follow the construction of Bin Type Shelving. They are furnished with adjustable shelves where so ordered, in number specified. Doors, similar to those used with Lupton Counter Extensions, are furnished with or without locks where ordered. Instead of using a separate top for each unit, a special top is furnished in a continuous steel sheet running the length of the counter. Wood tops can be furnished in place of steel if desired.

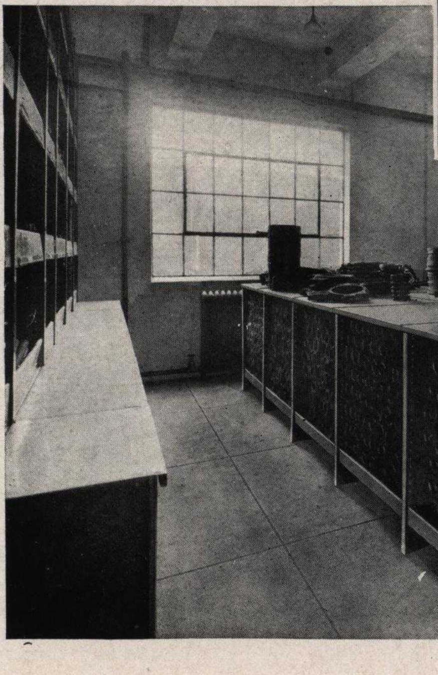
Lupton Sectional Steel Counters conform in dimensions to Lupton Steel Shelving, so that a counter unit can be interchanged with a shelving unit or used in the same floor layout.

Standard heights are 36, 39 and 42 inches; 39 inches being usually preferred. The usual width per unit is 36 inches, center to center of uprights. Standard depths, front to back, are 18, 24, 30 and 36 inches, the last three being usually preferred.

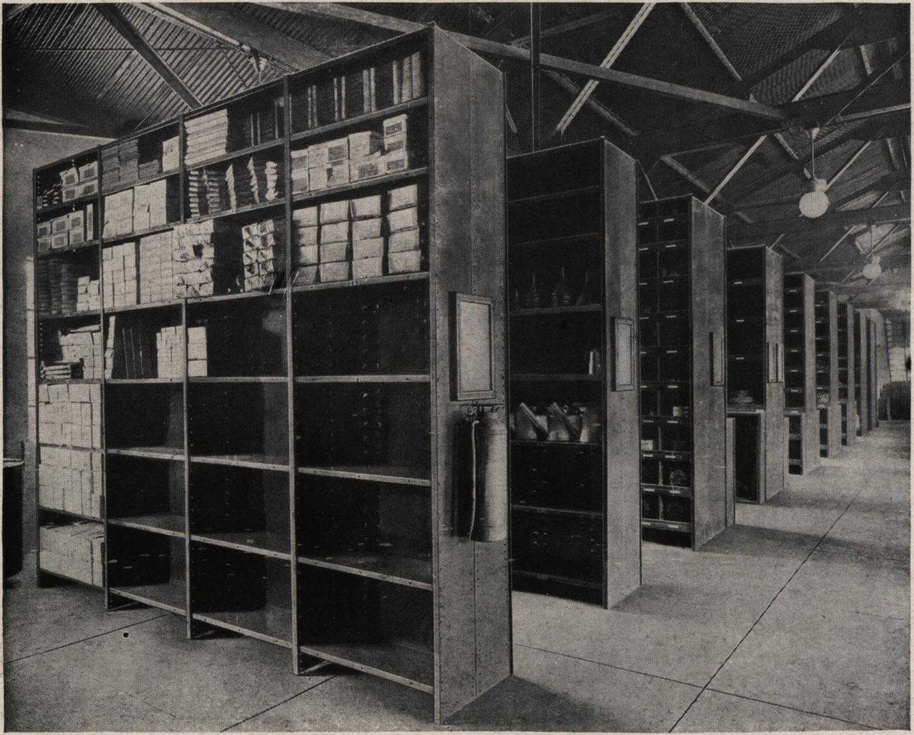
Standard Finish is olive drab oven-dried enamel.



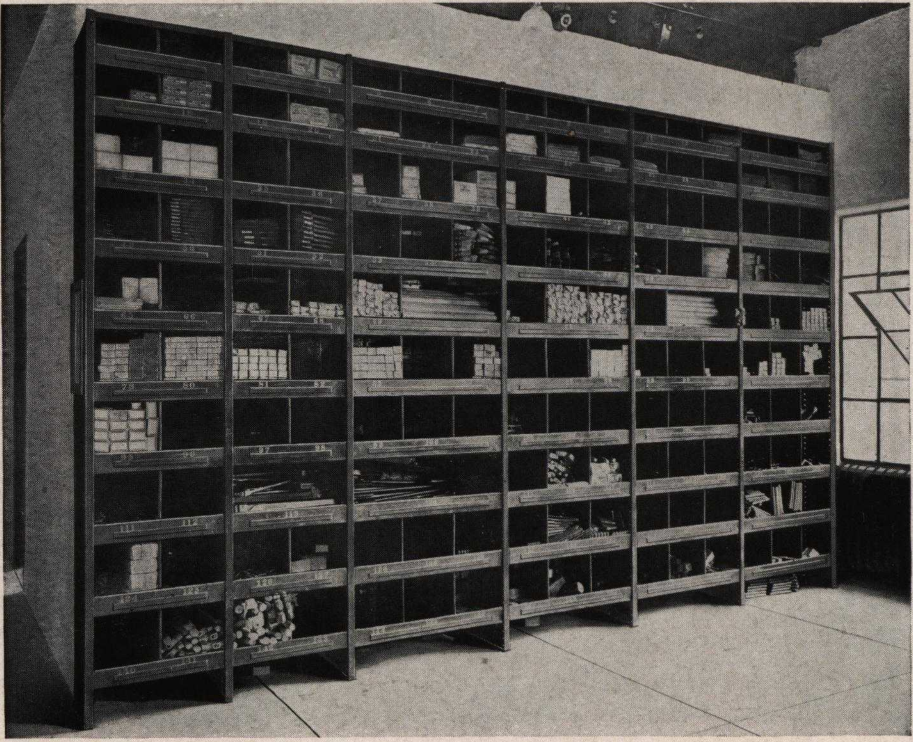
Lupton Sectional Steel Counter, in 36 x 36 in. units, with doors and a one-piece top. Doors are furnished with or without locks as specified.



Lupton Sectional Steel Counters placed back to back. These counters interchange in width and depth with Standard Lupton Shelving, and their use with the latter gives a desirable harmony of appearance.

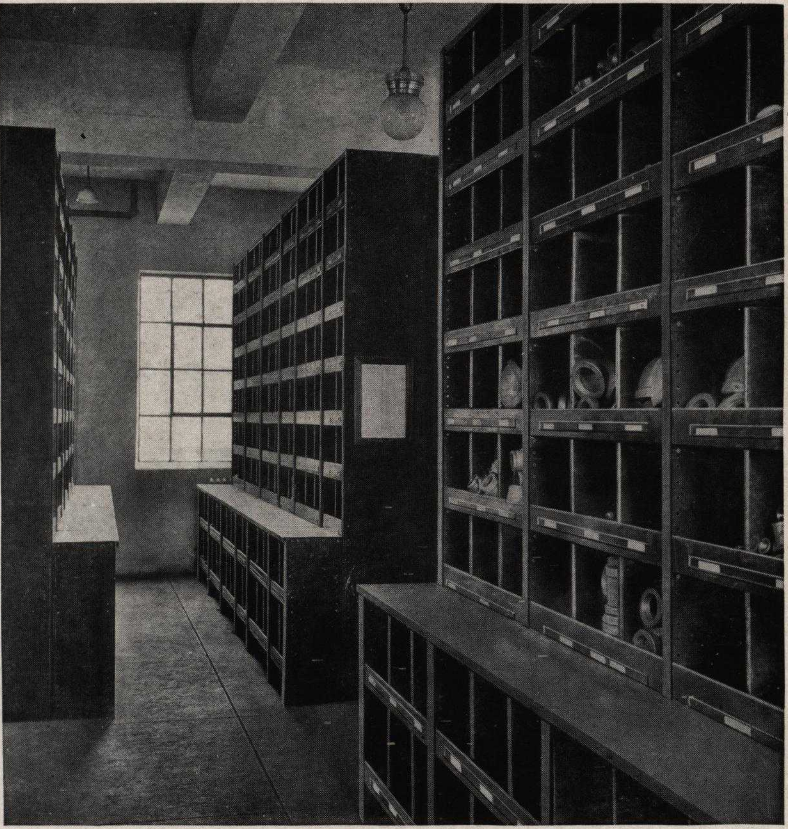


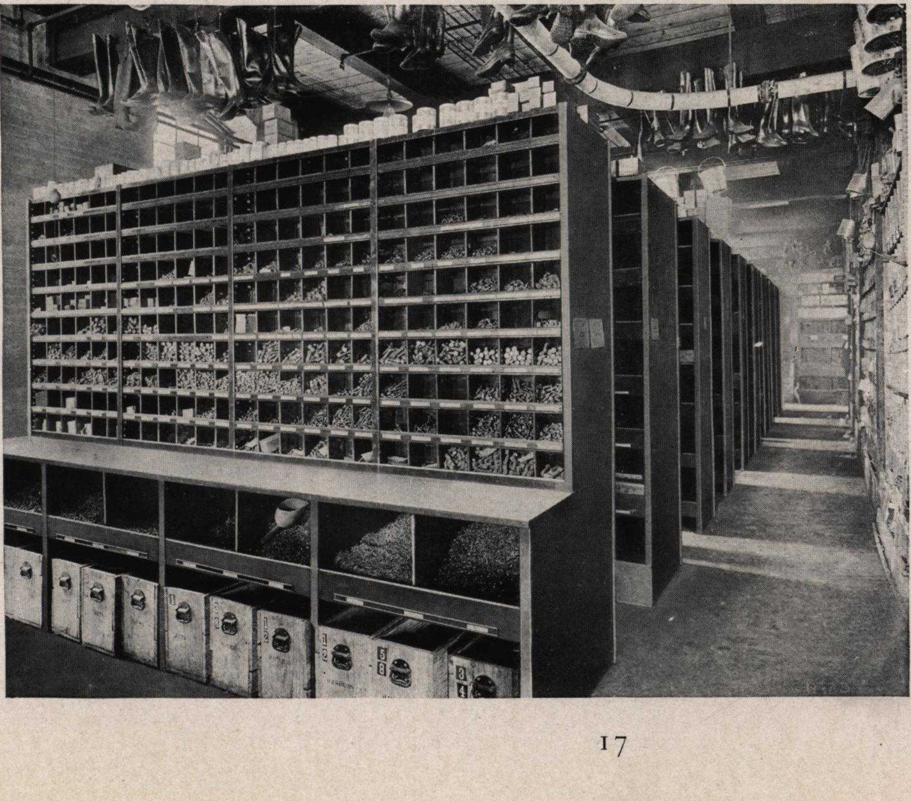
Lupton Bin Type Shelving with bolted adjustment placed in units back to back at Lehigh Coal and Navigation Co.'s plant, Lansford, Pa. The double punching of offsets in the backs to support both sets of shelves is special. Standard construction is bolted at back.



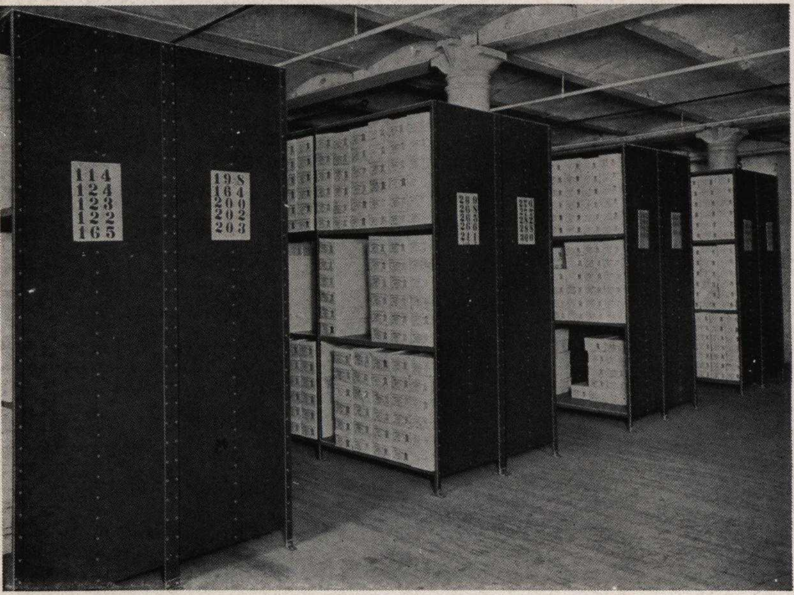
Lupton No. 3 Shelving with compartment dividers for hardware. To accommodate certain articles the dividers are omitted.

Special type of Lupton Bin Shelving, Bolted Adjustment. The shelf fronts are turned up, forming permanent bin fronts and giving necessary strength without channel bars. For permanent bins this is the most economical construction, and gives greater net storage capacity than where reinforcing bars must be used.

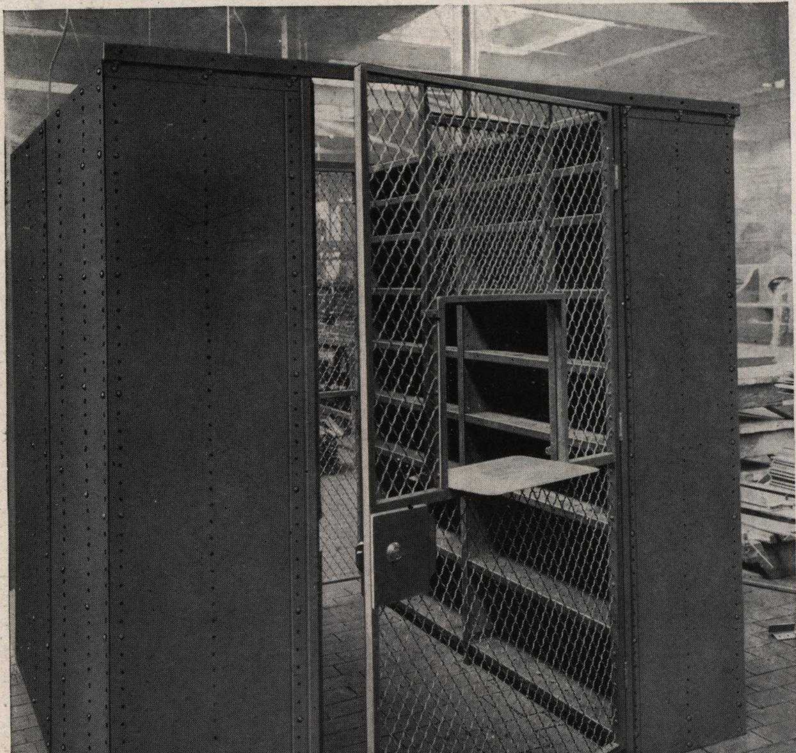




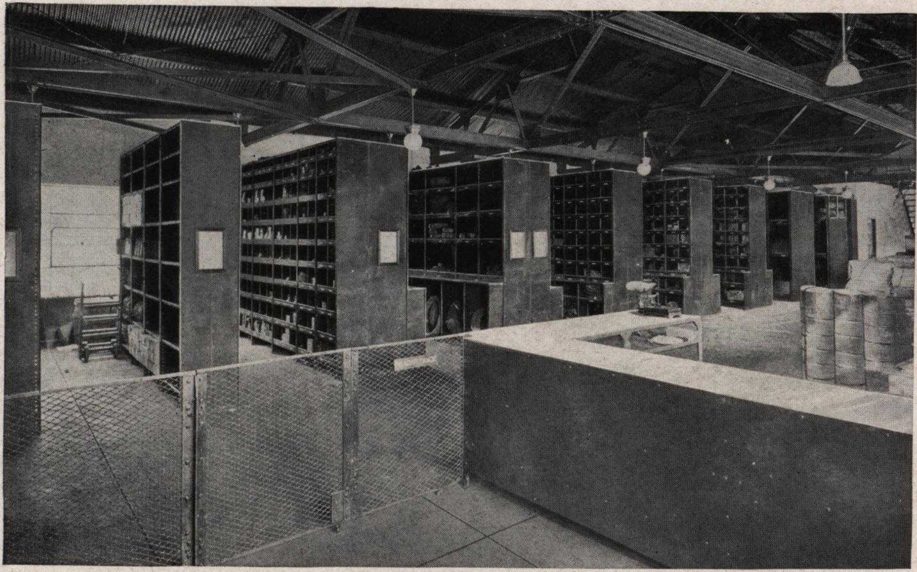
Electric Storage Battery Co., Philadelphia, Penna.—Lupton Bin Shelving with bolted adjustment and counter extensions. With small compartments the saving of space by the use of steel instead of wood shelving is an important item. The fronts of the regular shelves in this illustration are turned up to form permanent bin fronts, like those in the view above, but lower. Standard channel bar reinforcements and removable bin fronts are used in the counter extensions.



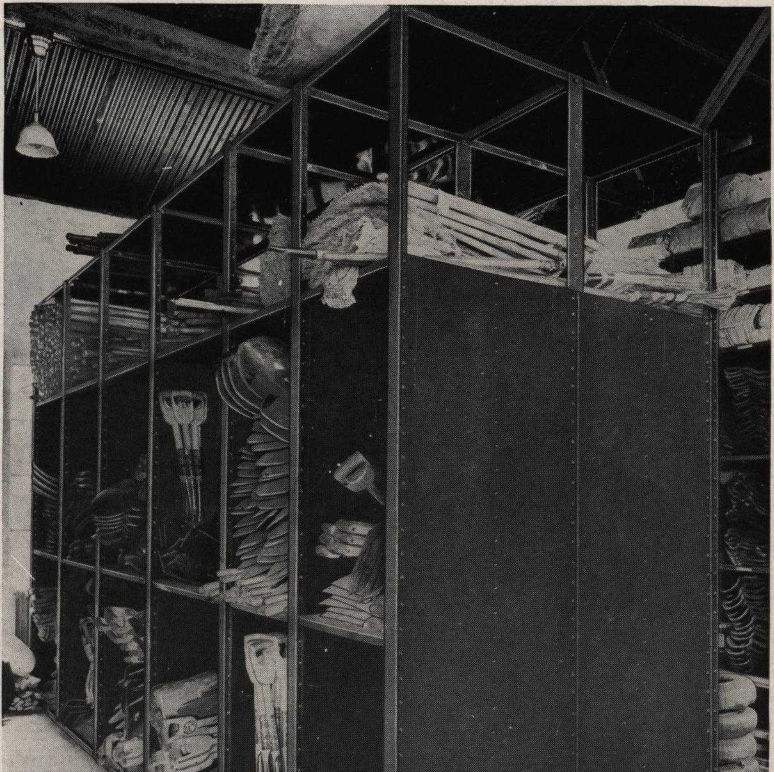
Special Lupton Shelving in warehouse of Endicott, Johnson Company, New York, N. Y. Three-fifths of a mile of this type of shelving are contained on the seven floors of this warehouse.



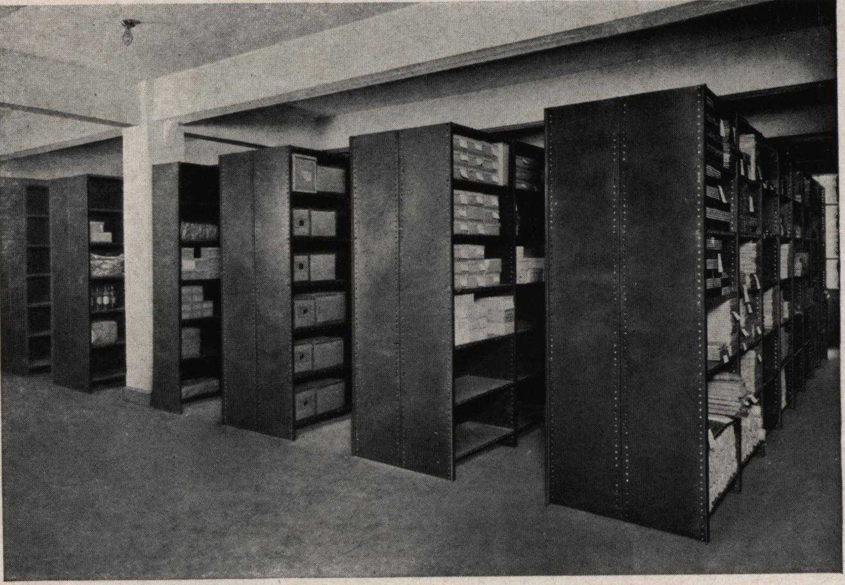
Watervliet Arsenal—Two pairs of units of Lupton No. 3 Shelving arranged with wire enclosure and door to form a sub-stockroom.



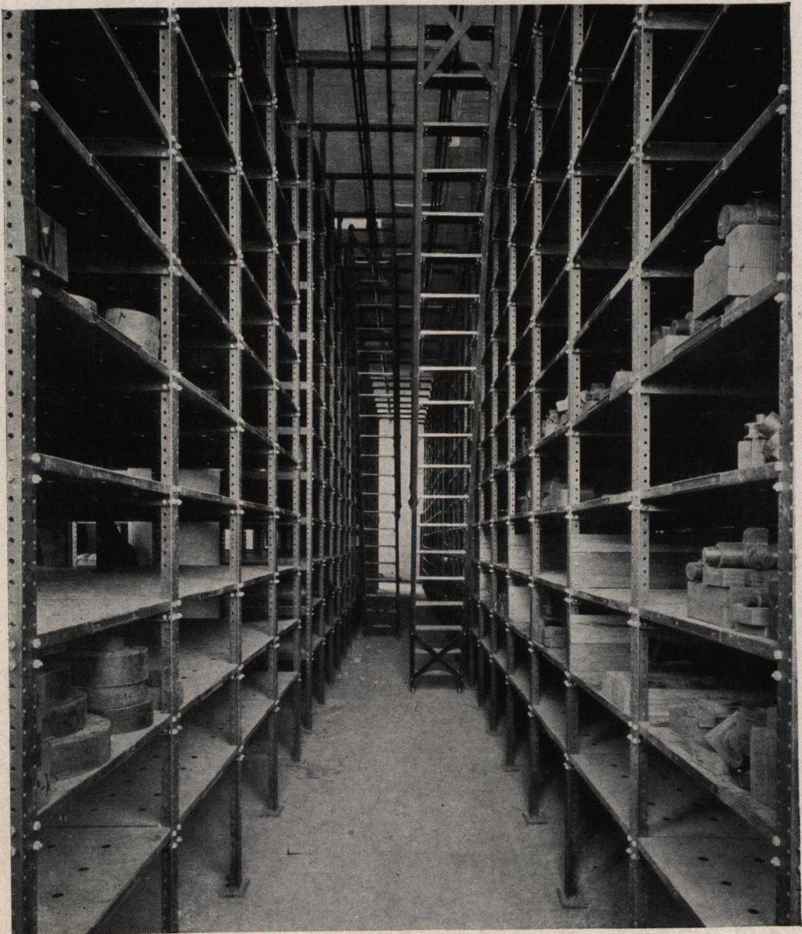
Lupton Bin Shelving in sets placed back to back. This view shows the adaptability of counter extensions where different kinds of materials must be handled.



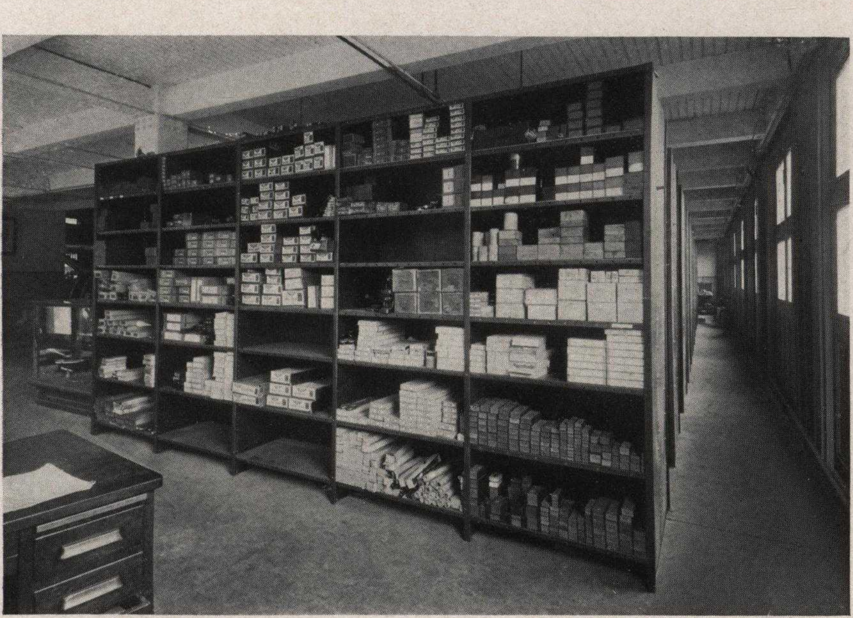
Lehigh Coal and Navigation Company, Lansford, Penna. A special arrangement of shelving with units placed back to back and sides going part way up. The shelves are bolted. This equipment was designed to hold shovels and tools, and sides were not required for the upper shelves.



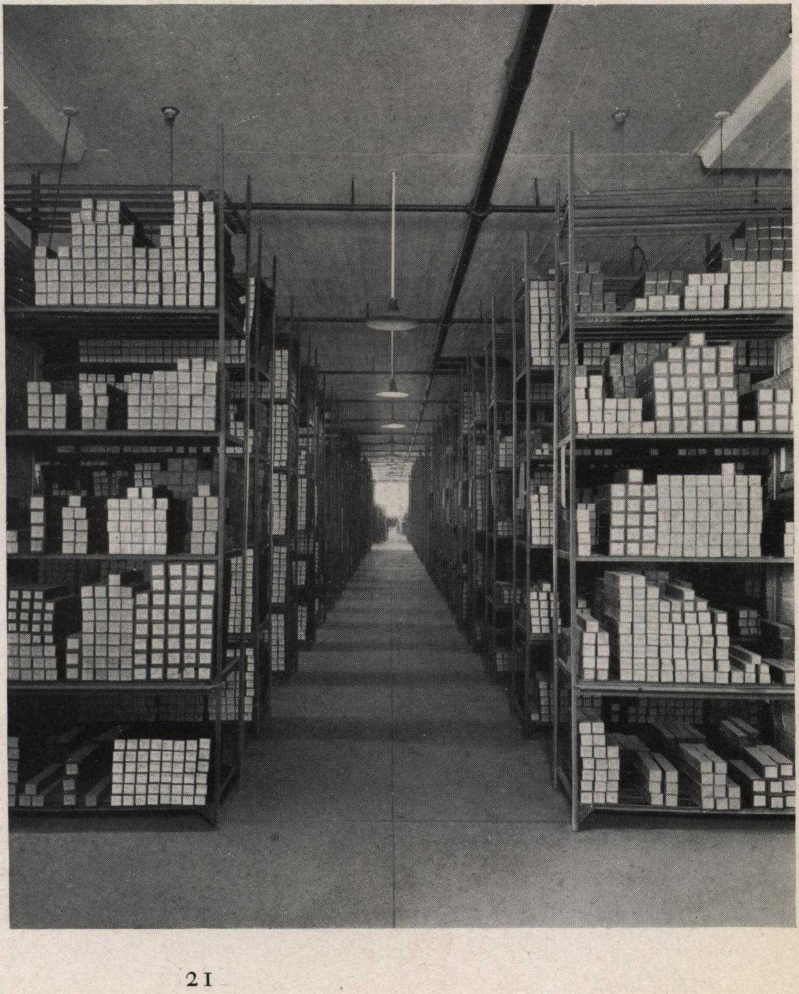
Lupton Bin Type Steel Shelving in Stationery Stock Room of The New York Trust Company.



Lupton Rack Type Steel Shelving in Philadelphia Navy Yard, League Island, Philadelphia.

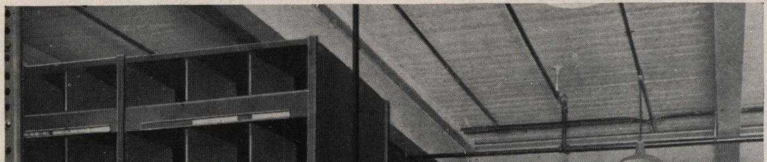


Lupton Bin Type Shelving in Stock Room of the Fairbanks Company, New York City.

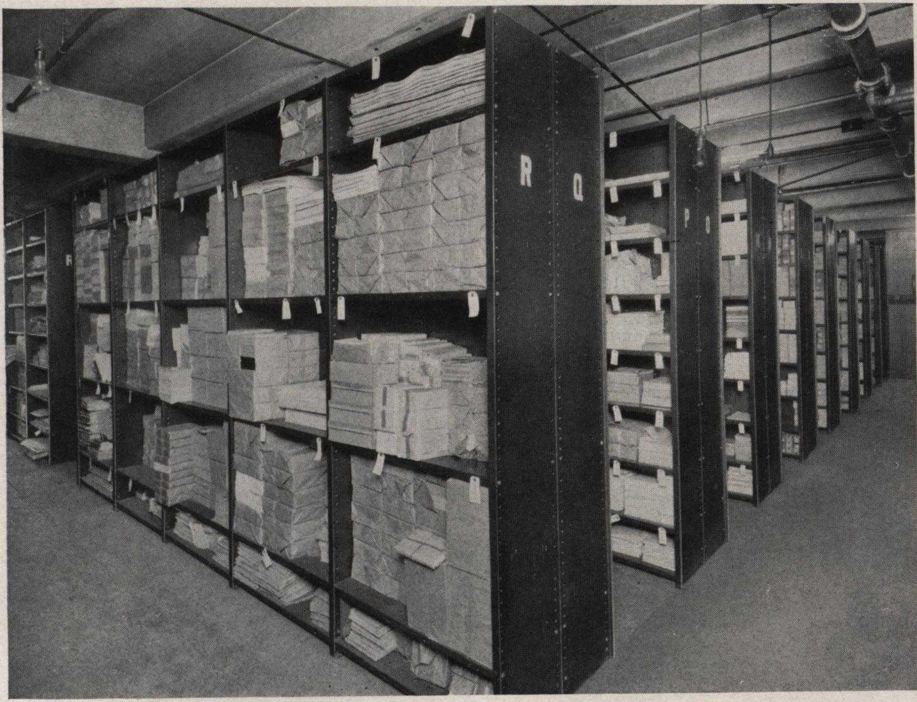


Lupton Steel Shelving, Special Open Rack Type using angle bar racks instead of sheet steel shelves. Installation is in stock room of Q.R.S. Music Roll Company, New York City.

Lupton Bin Type Steel Shelving with Counter Extensions in stock room of Walworth International Corporation, New York City.

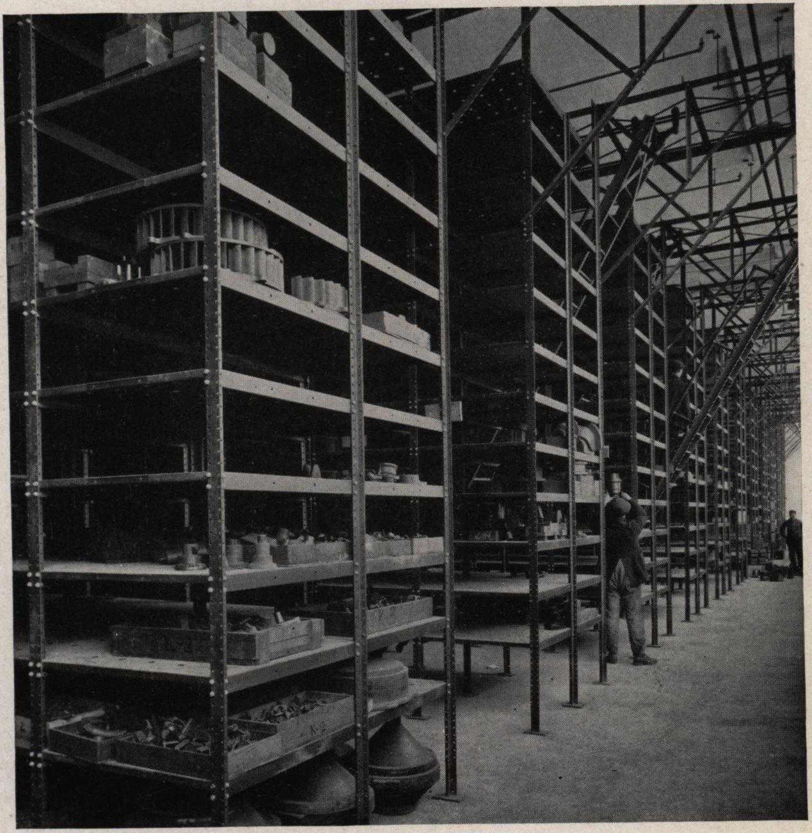


American Brass Company, Waterbury, Conn. Typical installation of Lupton Bin Type Shelving, showing Counter Extensions; see page 13.



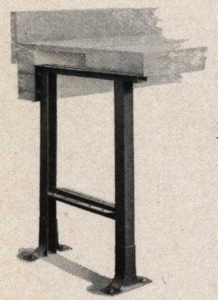
Lupton Bin Type Shelving in plant of Edison Lamp Works of the General Electric Company, Harrison, New Jersey.

Lupton Open Rack Steel Shelving at Philadelphia Navy Yard, League Island, Philadelphia.

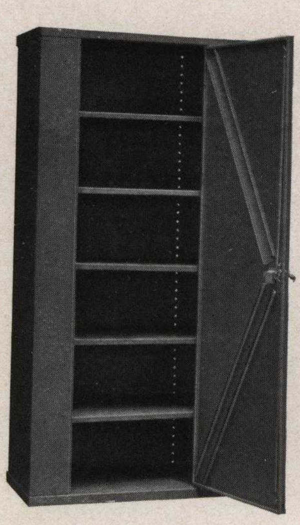


OTHER LUPTON PRODUCTS

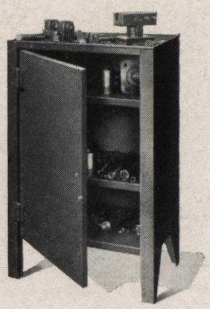
Descriptive folders of any of these will be sent on request



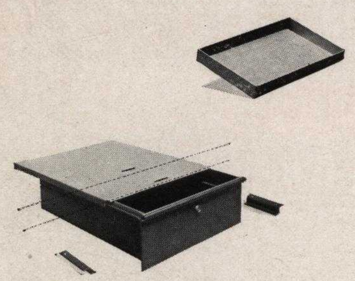
Pressed Steel Bench Leg



Steel Utility Cabinet for stationery and miscellaneous storage. Also furnished as a locker, with top shelf and pipe rail for coat hangers.

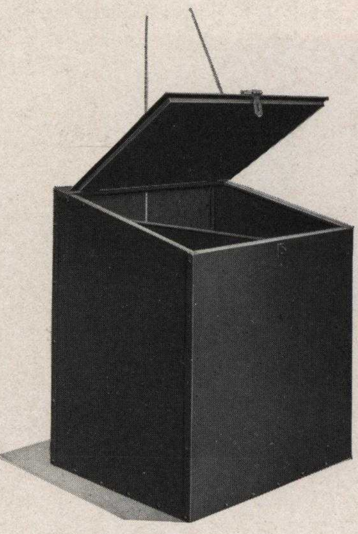


Steel Tool Cabinet

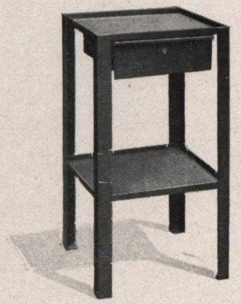


Pressed Steel Bench Drawer
(Tray furnished as an extra)

Steel Factory Desk

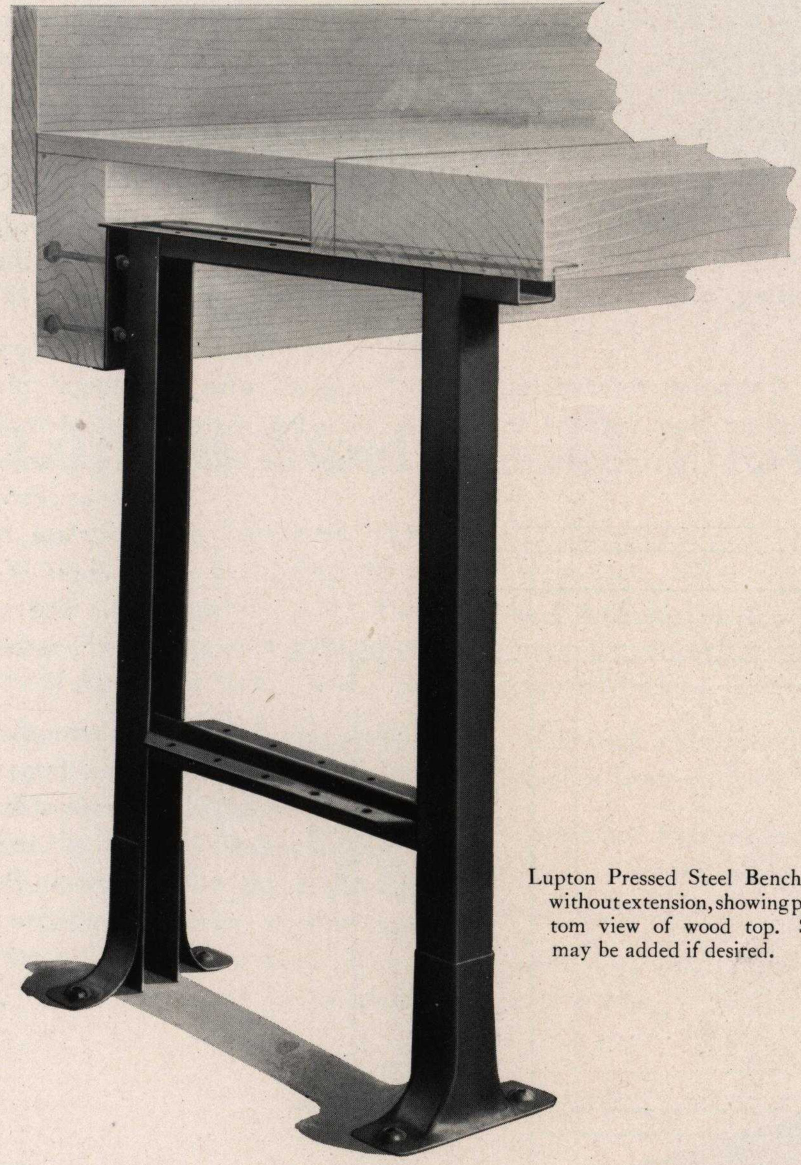


Steel Waste Bin for safe storage of inflammable materials.



Steel Tool Stand

Lupton Pressed Steel Bench Legs and Bench Drawers



Lupton Pressed Steel Bench Leg without extension, showing phantom view of wood top. Shelf may be added if desired.

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Lupton Pressed Steel Bench Legs

Pressed Steel has certain manifest advantages over both wood and cast iron as a bench support. It is lighter and more permanent than wood. It is completely fabricated in the factory, where such work can be done cheaply; hence it requires minimum time and no skill for erection.

As all parts are formed in dies, the dimensions are accurate and uniform. There is no cutting and fitting, and no chance for a mistake in size.

Pressed steel is superior to cast iron, both because it is lighter and because it withstands rough usage. It costs less to ship; it is easier to handle and erect, and it is not liable to damage in transit. A chance blow from a passing truck may possibly dent it, but cannot cripple it by breakage.

In case of rearrangement of floor layout, which requires benches to be moved, this can be done with minimum effort where pressed steel bench legs are used, because of the lightness of the legs and the ease with which they are unscrewed from the floor.

Lupton Pressed Steel Bench Legs are designed with the metal placed where it is needed, without useless weight. The top and feet are broadly flared, making them steady without cross bracing. The top surface, being flat, permits any form of wood top to be used. The lower cross member will receive a shelf where desired.

Where the bench is to be set out from the wall to clear water or steam pipes, a simple form of pressed steel back Extension Bracket, shown on the opposite page, is used.

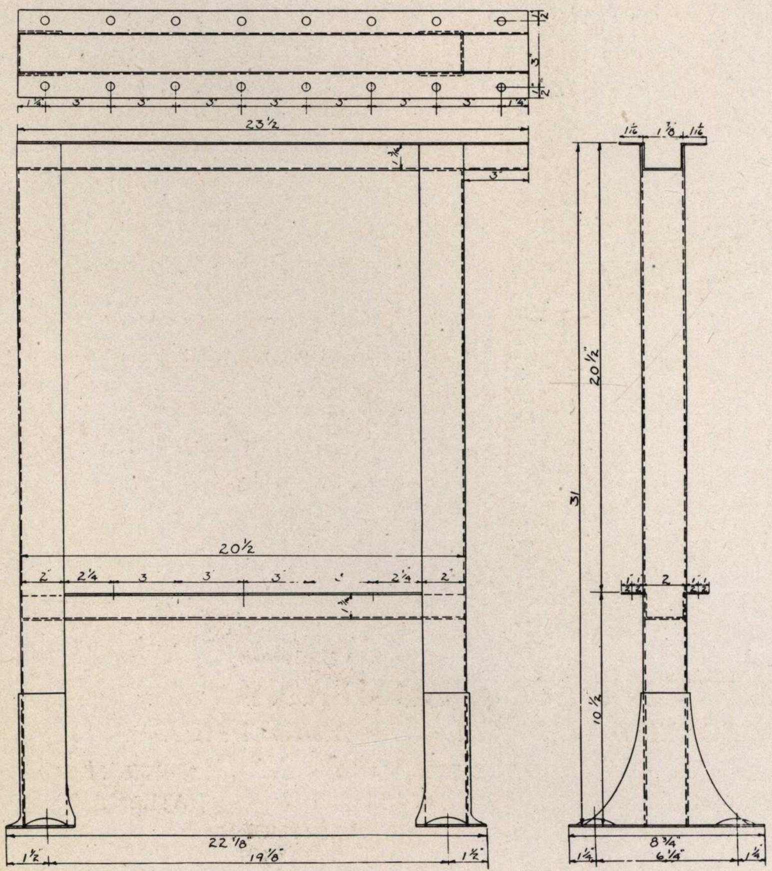
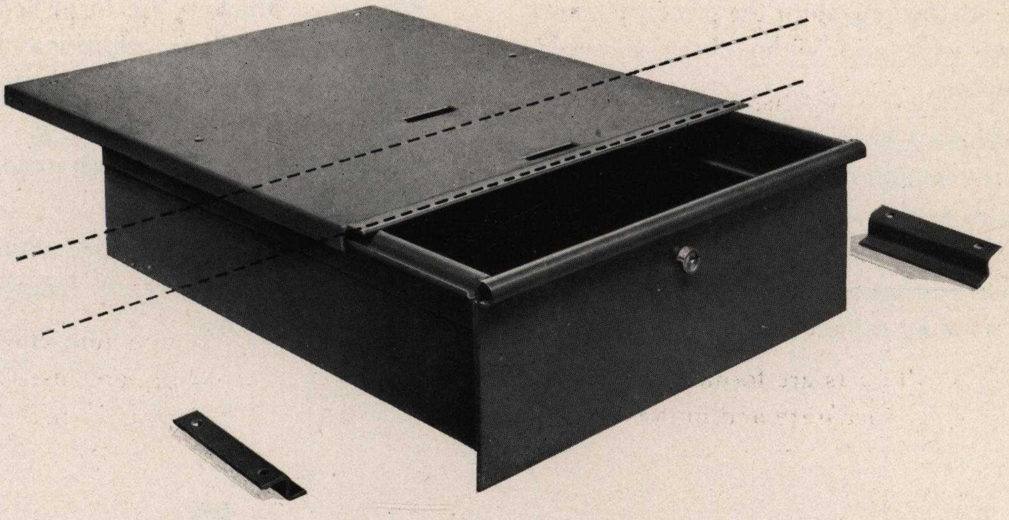


Figure 1—Dimensions of standard size Bench Leg.



Lupton Steel Bench Drawers

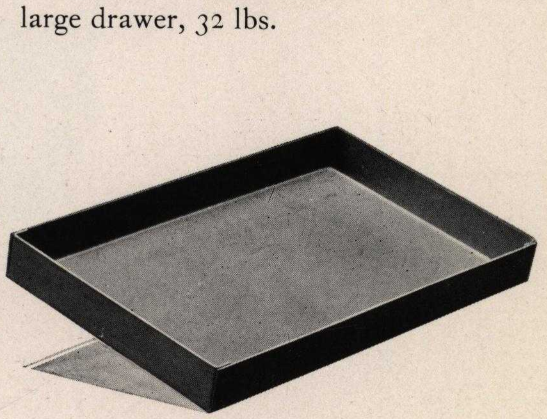
These are made in two sizes. The smaller is 14 in. wide, 5 in. deep, 18 in. front to back: the larger is 14 in. wide, 6 in. deep and 24 in. front to back. Both are identical in construction.

The sides have formed runners which slide in guides formed in the top steel plate. This plate is screwed from beneath to the bench top, and is further supported at the front corners by the angle clips shown, to prevent it from sagging when the drawer is open. It contains a stop to prevent the drawer from being pulled clear out, and also a lug which is engaged by the lock. When the drawer is locked, the screws in the top plate are covered; hence the drawer cannot be opened or removed without destroying it.

The tray is furnished as an extra. It is 8 inches front to back, 1¼ inches deep.

Standard finish: olive drab oven-dried enamel. Drawers are shipped fully assembled and crated.

Shipping weight: small drawer, 26 lbs., large drawer, 32 lbs.



Tray furnished as an extra with either size of Lupton Steel Bench Drawer. Dimensions: 13⅞ in. wide, 8 in. front to back, 1¼ in. deep.

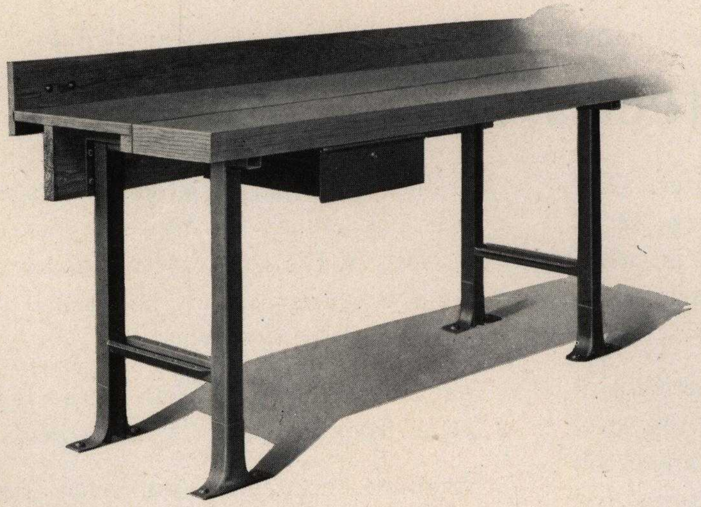
The drawings show the principal dimensions with and without the Extension Bracket.

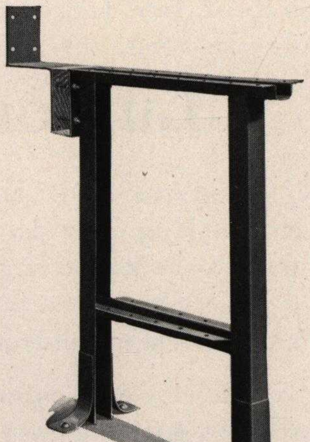
Where a double bench is to be placed in the middle of the floor, or at right angles to the wall, two sets of bench legs are used as shown in Figure 4. The same arrangement can be used to make up working tables.

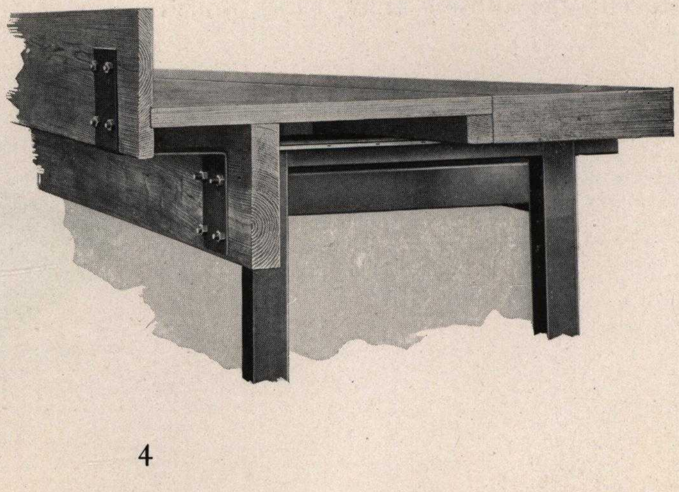
Extension Brackets are furnished only where specified and at an additional charge. They add 5 inches to the front-to-back measurement.

Standard finish: olive drab oven-dried enamel.

Prices do not include bolts, which are furnished by purchaser of length and size to suit the top.







Bench Leg, showing use of rear bracket extension to enable back of bench to meet wall over water or steam pipes.

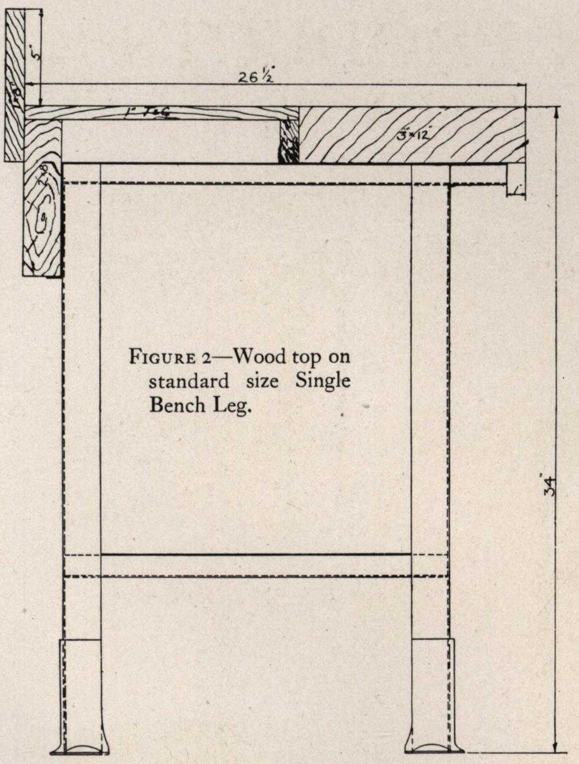


FIGURE 2—Wood top on standard size Single Bench Leg.

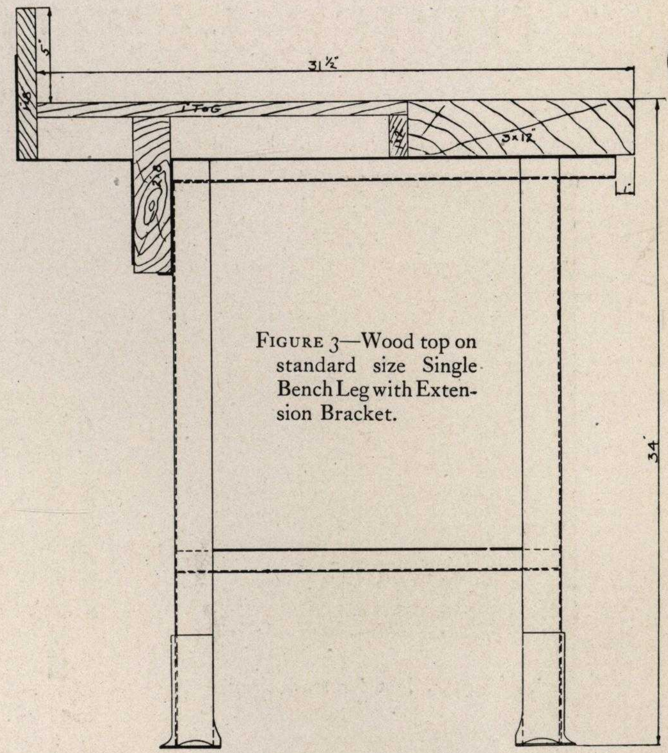


FIGURE 3—Wood top on standard size Single Bench Leg with Extension Bracket.

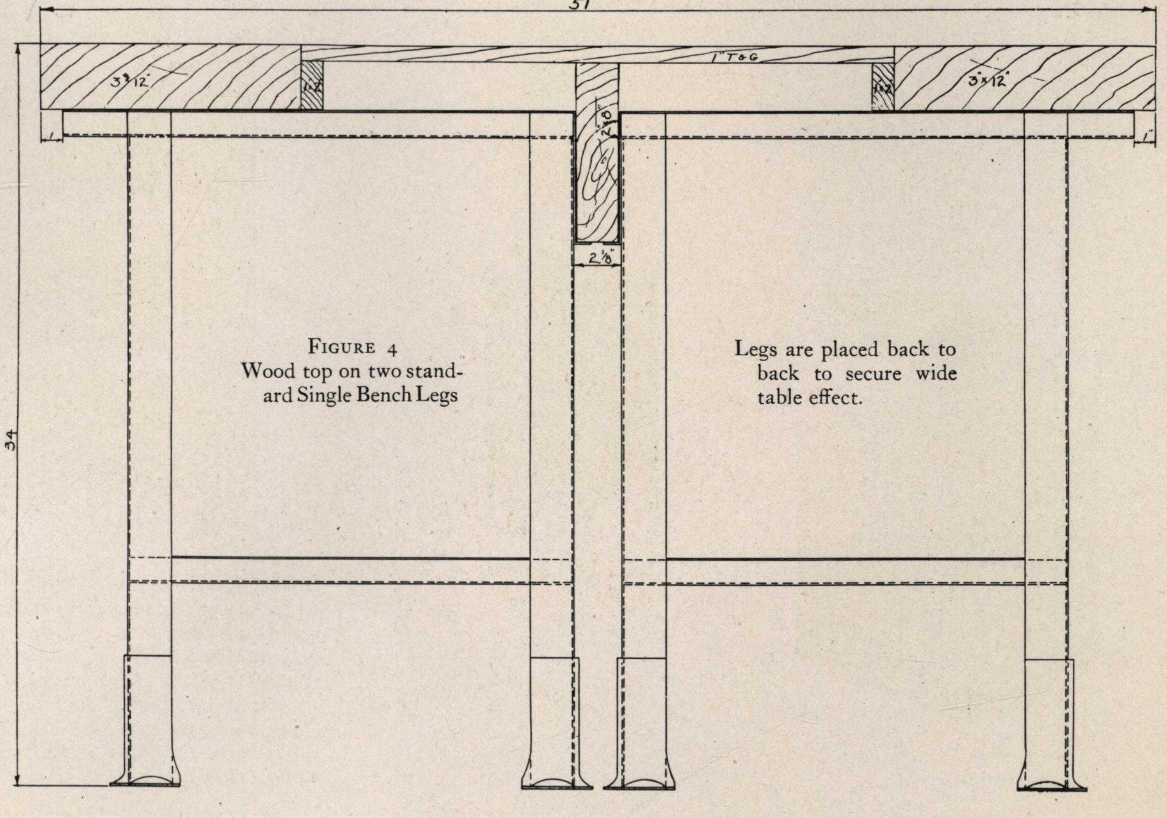
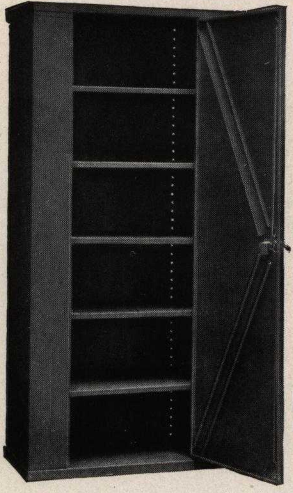


FIGURE 4
Wood top on two standard Single Bench Legs

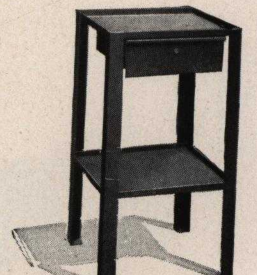
Legs are placed back to back to secure wide table effect.

OTHER LUPTON PRODUCTS

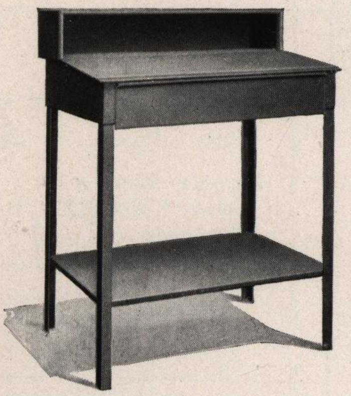
Literature regarding any will be sent on request



Steel Utility Cabinet for stationery and miscellaneous storage. Also furnished as a locker, with top shelf and pipe rail for coat hangers.

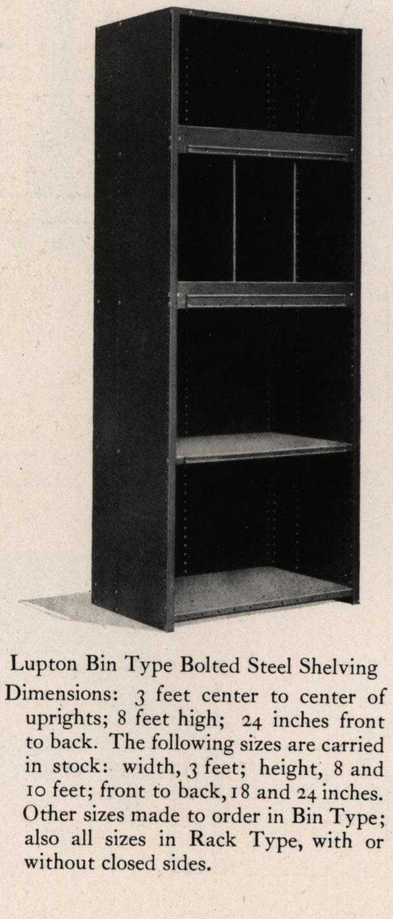


Steel Tool Stand



Steel Factory Desk

Steel Tool Cabinet

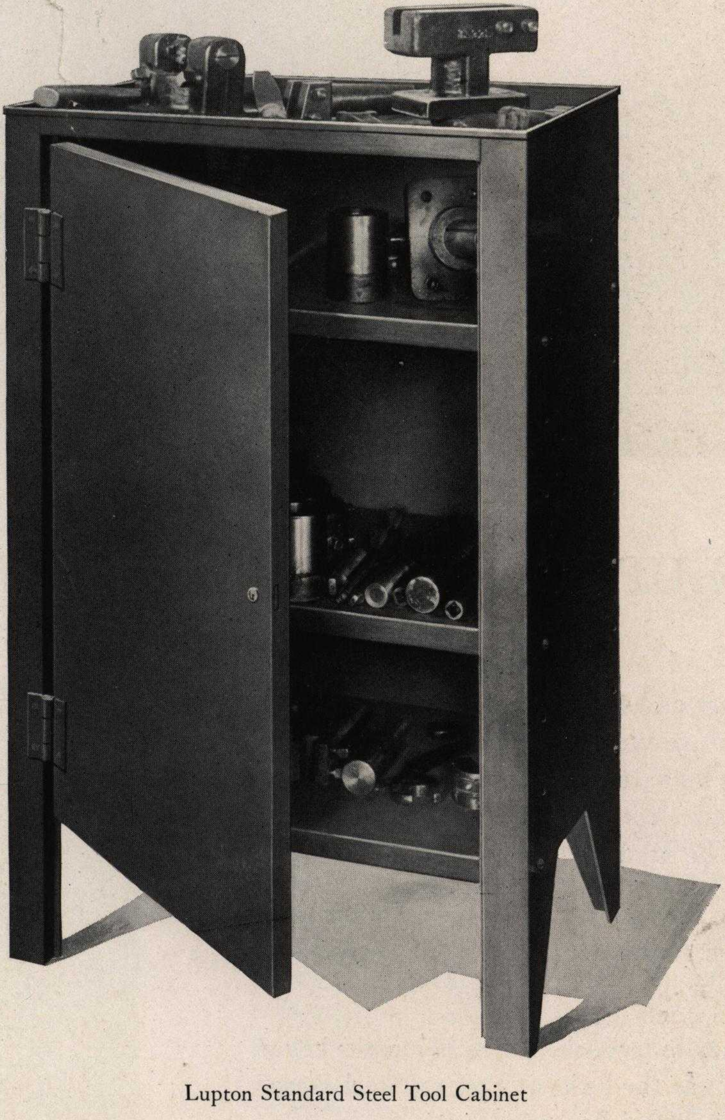


Lupton Bin Type Bolted Steel Shelving

Dimensions: 3 feet center to center of uprights; 8 feet high; 24 inches front to back. The following sizes are carried in stock: width, 3 feet; height, 8 and 10 feet; front to back, 18 and 24 inches. Other sizes made to order in Bin Type; also all sizes in Rack Type, with or without closed sides.

Steel Waste Bin for safe storage of inflammable materials.

LUPTON TOOL CABINETS AND TOOL STANDS



Lupton Standard Steel Tool Cabinet

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LUPTON TOOL CABINETS

These are strongly and simply made, with sides, back and legs formed in one piece, and the top formed with raised rim one inch high, rolled over the top edges of the sides and back and electrically welded. This design permits the top to be used as a tool stand.

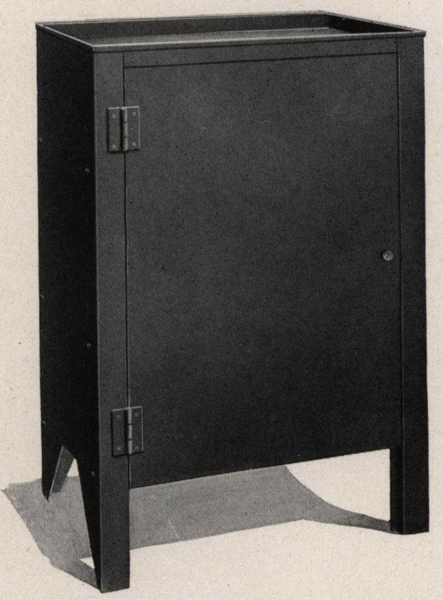
The shelves have the edges flanged down for stiffness, and the front edge forms a channel. All shelves are adjustable for height on three-inch centers.

The door has a cylinder lock, which is master keyed on the same system as the locks of Lupton Steel Bench Drawers, Tool Stands and Factory Desks.

Dimensions: 24 in. wide, 36 in. high and 16 in. deep. Shipping weight, 90 lbs.

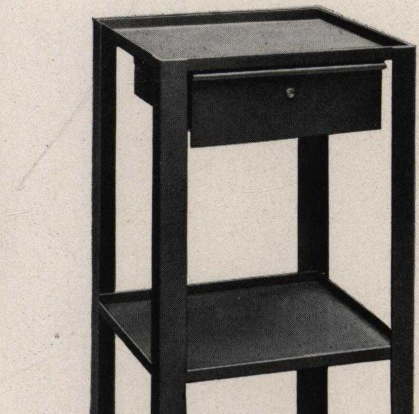
The cabinet is shipped completely assembled and crated.

Standard finish: olive drab oven-dried enamel.



The simple and businesslike lines of Lupton Standard Tool Cabinets are in keeping with modern shop efficiency.

LUPTON STEEL TOOL STANDS



Lupton Standard Tool Stands are first aids to the busy machinist.

These stands are made from pressed steel, and permanently assembled by electric welding. The top rim is raised one inch, and the shelf rim is similarly formed.

The drawer is identical in construction with the smaller Lupton Steel Bench Drawer. It is strongly built, and contains guides for using a tray where desired.

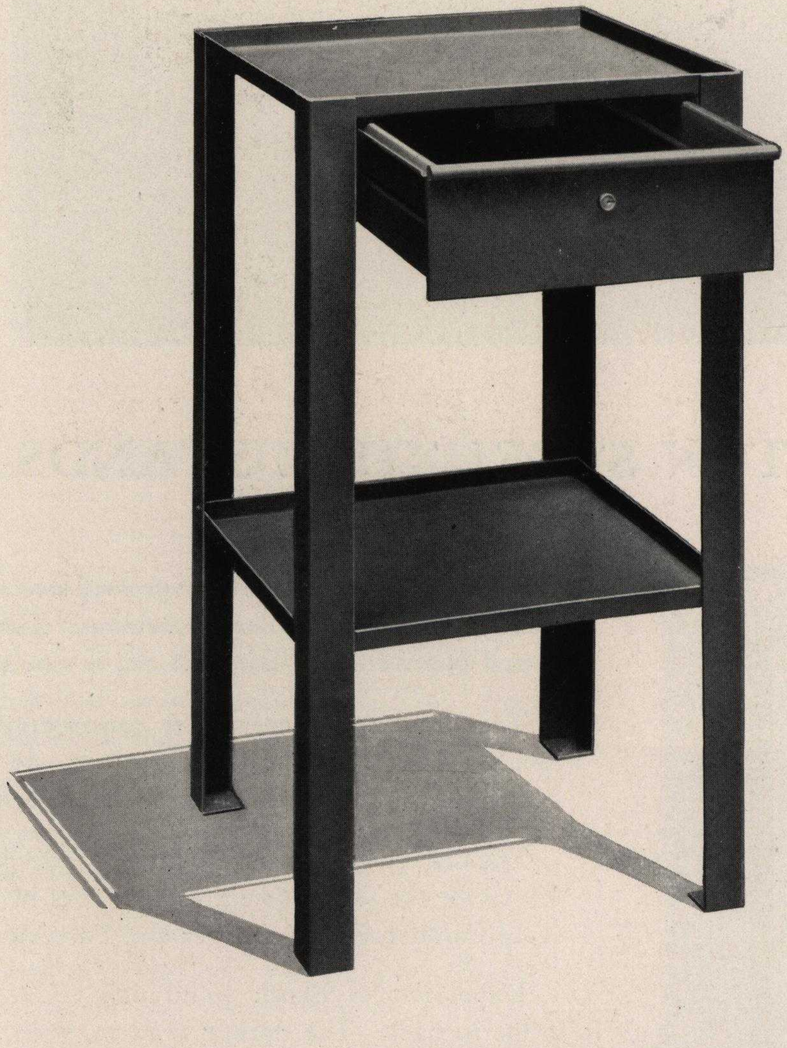
The drawer has a bronze-plated cylinder lock, master-keyed on the same system as the locks in the Lupton Tool Cabinet, Bench Drawer and Factory Desk.

Dimensions of Stand: 36 in. high, 20 in. wide, 20 in. front to back. The drawer is 14 in. wide, 5 in. deep, 18 in. front to back. The tray is furnished as an extra: it measures 8 in. front to back and 1¼ in. deep.

Standard finish: olive drab oven-dried enamel. The Stand is shipped fully assembled and crated.

Shipping weight, approximately 55 lbs.

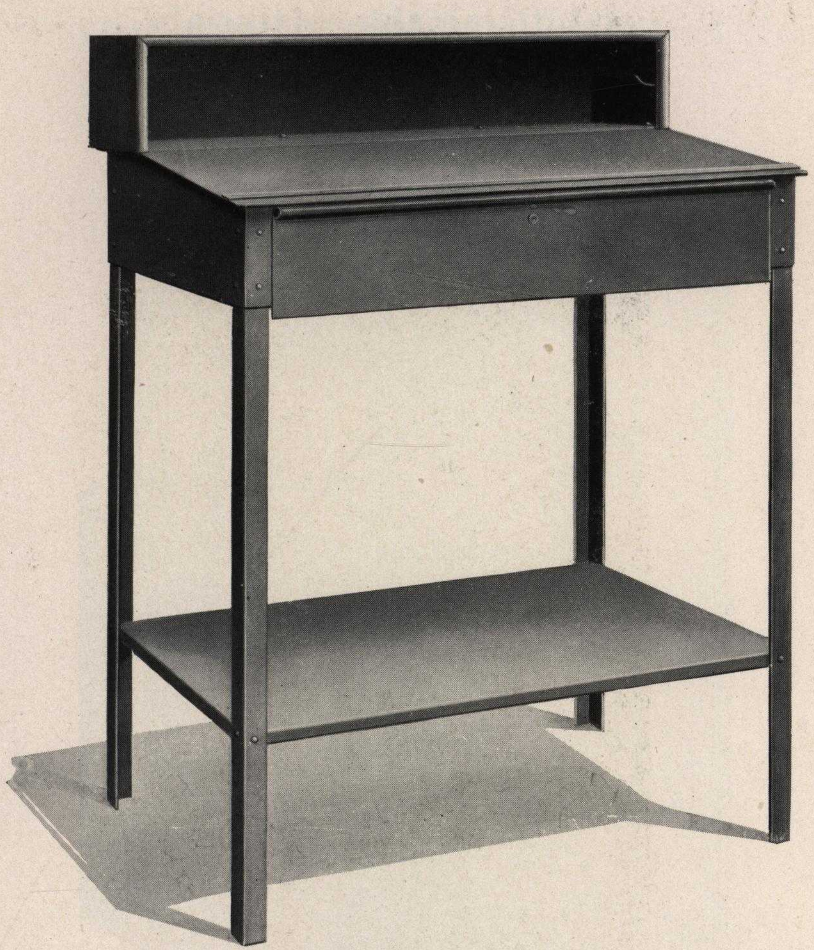
LUPTON TOOL STANDS AND TOOL CABINETS



OTHER LUPTON PRODUCTS

STEEL SHELVING, RACK TYPE
STEEL SHELVING, BIN TYPE
PRESSED STEEL BENCH LEGS
PRESSED STEEL BENCH DRAWERS
STEEL FACTORY DESKS
STEEL WASTE BINS
STEEL UTILITY CABINETS

LUPTON STEEL FACTORY DESKS



These are made with full width drawer of same construction as Lupton Standard Bench Drawers. It has a cylinder lock master keyed on same system as Bench Drawer, Tool Cabinet and Tool Stand.

The top is reinforced and the hood contains a pen holder. The front edge of the top has a lip to prevent papers from sliding off. The hood, legs and shelf are attached by bolts.

The desk is 36 in. wide, 43½ in. high to front edge, and 28 in. deep. Shipping weight, approximately 130 lbs. Standard finish, olive drab oven-dried enamel.

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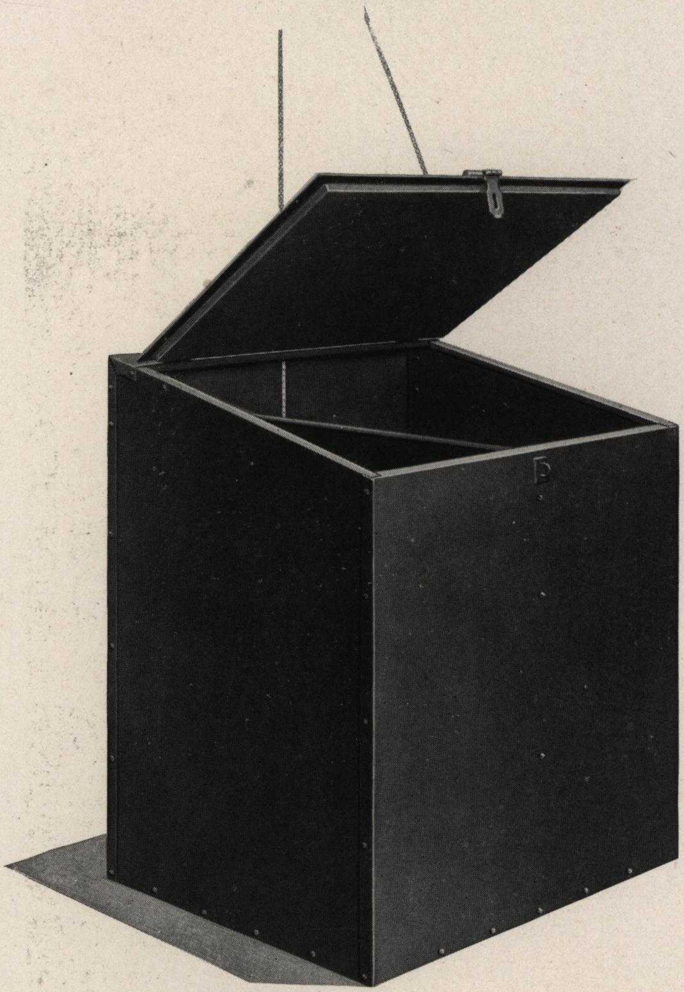
LUPTON STEEL BINS

For Inflammable Materials



These may be used for dry and oily waste, oil cans, excelsior, curled hair, and any other materials which require special protection against fire.

The partition permits two classes of materials, such as dry and oily waste or two grades of curled hair, to be kept in the same bin. The lid is balanced partly open by a chain and weight which runs in a weight box. The chain contains a fusible link conforming to Underwriters' requirements.

The bin is shipped completely knocked down, and is assembled by bolts. The partition may be removed, if desired.

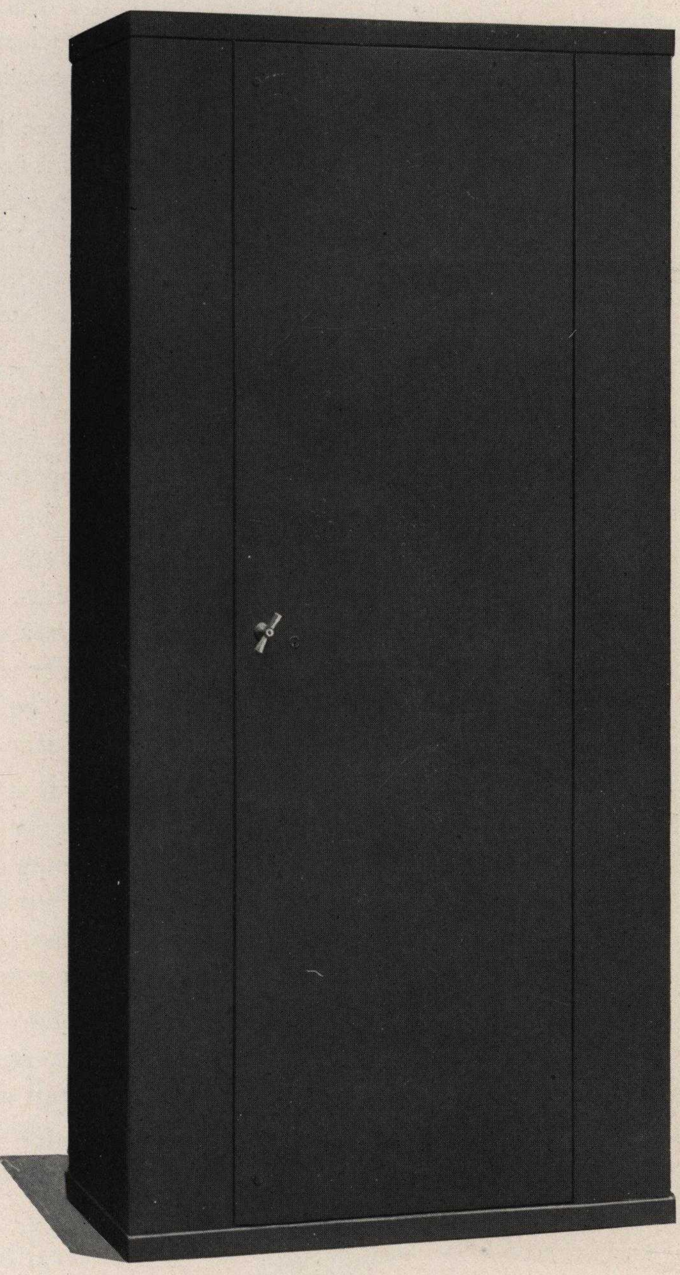
Shipping weight, 190 lbs. The lid has a hasp, but padlock is not included.

Dimensions: 36 in. wide, 30 in. front to back, 42 in. high at back and 36 in. high at front.

Standard finish: olive drab oven-dried enamel.

Lupton Steel Utility Cabinet

and Junior Office Cabinet

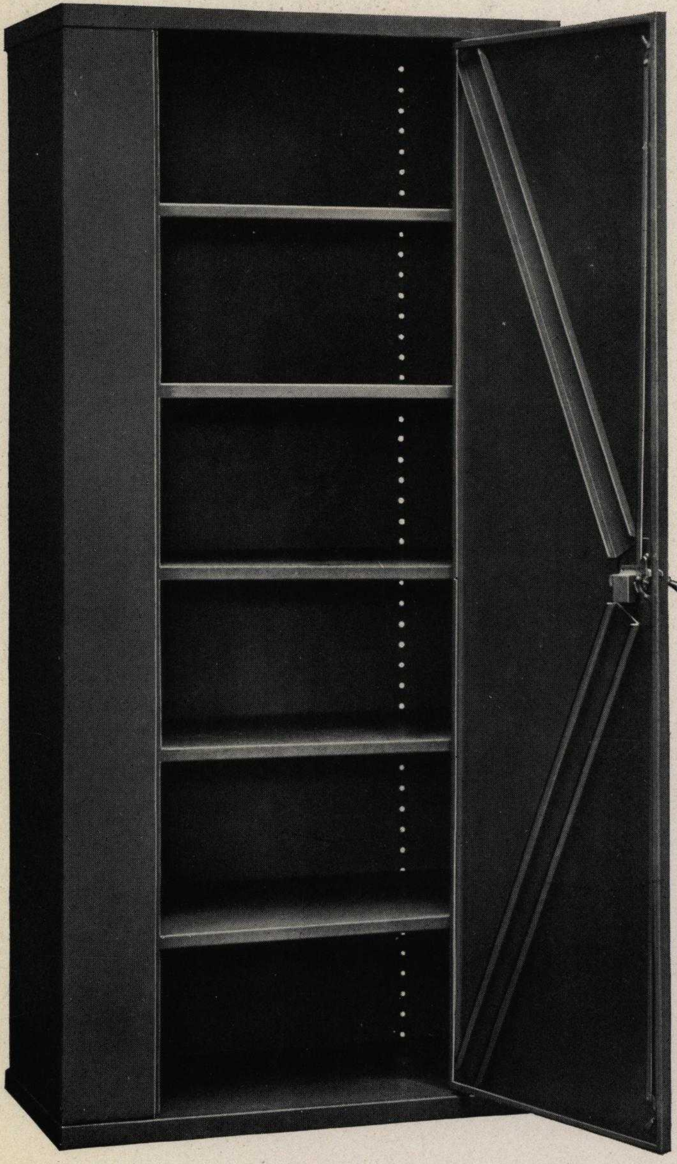


Lupton Standard Utility Cabinet, 36 in. wide, 75 in. high, 18 in. deep

Lupton Steel Utility Cabinet

This Cabinet may be used for a great variety of purposes in factory, store and office. In the Factory it supplies safe-keeping for small lots of tools, jigs and fixtures too large for a standard tool cabinet and too small for a regular stock room.

In the Store it is useful for keeping samples and any special articles outside of the regular stock under lock and key.



Utility Cabinet arranged for storage of stationery and miscellaneous articles

In the Office it serves as a stationery cabinet, book case and general storage for articles valuable enough to be locked. By taking out all except the top shelf and substituting a horizontal pipe rail it becomes a wardrobe or locker.

The shelves are adjustable like the shelves of a book case, by using the bracket support shown on the opposite page.

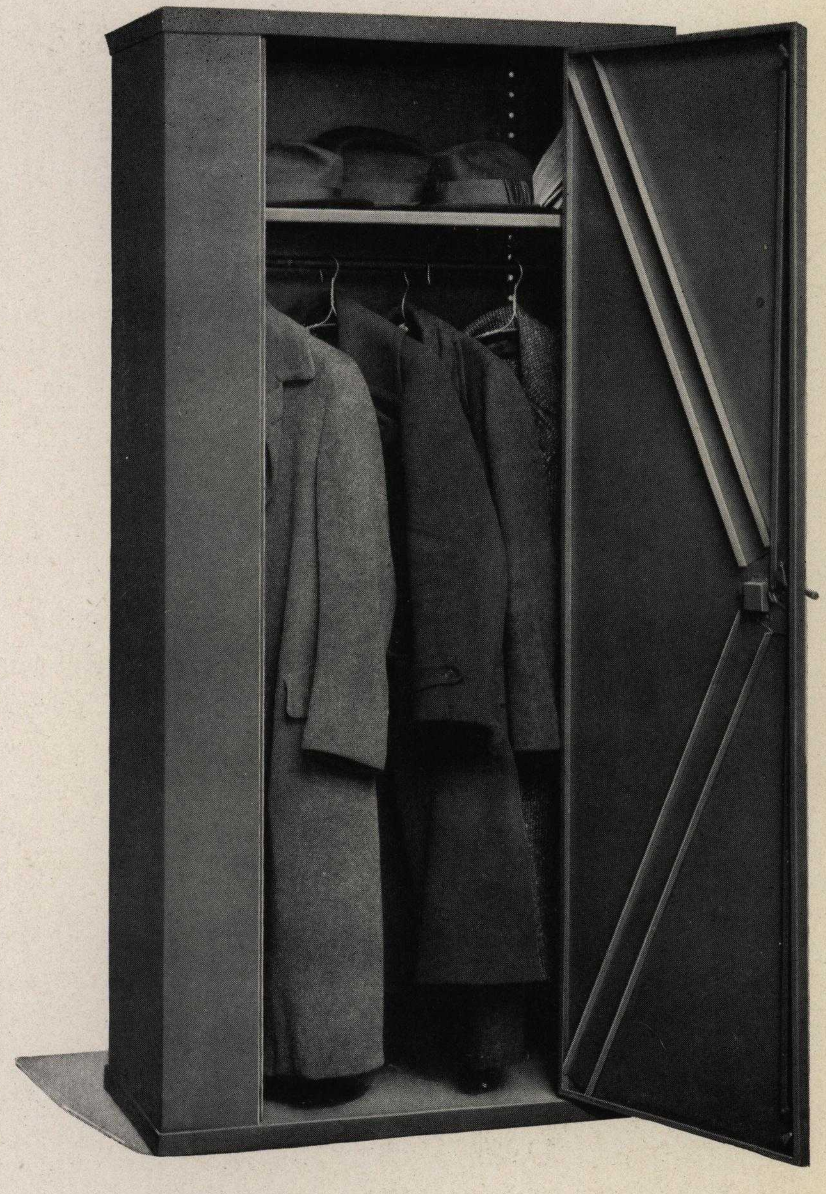
The shelves have flanged edges; the front edge is turned down and back to form a channel for additional strength. The sides and back are put together by bolts, and are made of strength to stand hard usage.

The door is strongly reinforced, and is latched at the top, bottom and midway by turning one handle. This construction is similar to that commonly used for safes. A single cylinder lock locks all the latches.

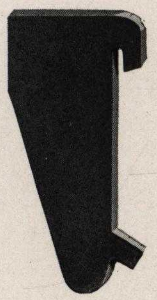
The Cabinet is mounted on four steel casters. It is regularly furnished with one shelf and pipe rail for coat hangers. Additional shelves are furnished when specified at a unit price per shelf.

The Cabinet is handsomely finished in olive drab oven-dried enamel, and presents an appearance worthy of any office.

LUPTON STEEL UTILITY CABINET



Utility Cabinet arranged as locker for coats, hats and packages.



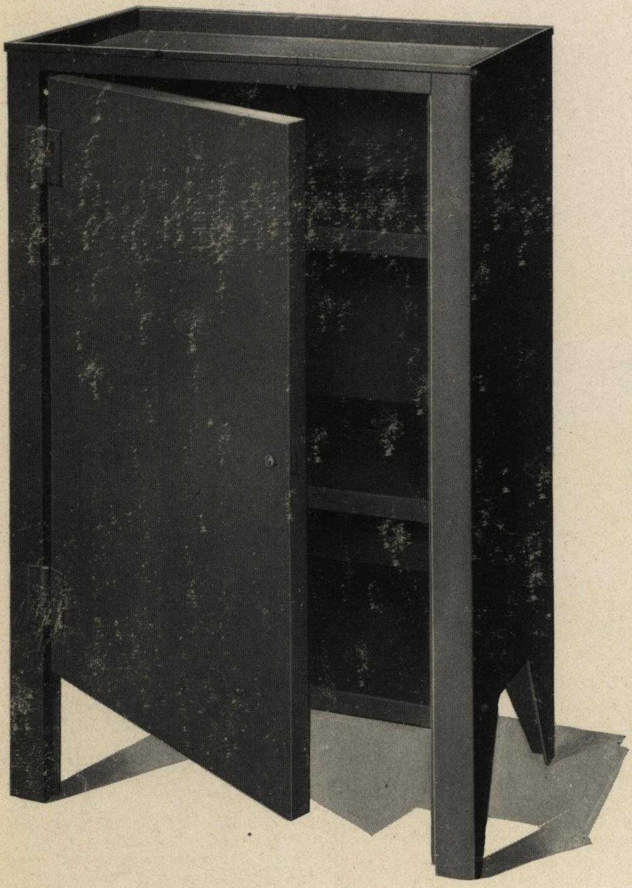
Adjustable bracket support for shelves

Dimensions: Width, 36 in.; height, 75 in.; depth, front to back, 18 in.

OTHER LUPTON PRODUCTS

STEEL SHELVING, RACK TYPE
STEEL SHELVING, BIN TYPE
PRESSED STEEL BENCH DRAWERS
STEEL TOOL CABINETS
PRESSED STEEL BENCH LEGS
STEEL TOOL STANDS
STEEL FACTORY DESKS
STEEL WASTE BINS

Lupton Junior Office Cabinet



A small storage cabinet for stationery and office supplies; also for manuscripts and documents. It is strongly built of steel, with sides, back and legs formed in one piece, and the top electrically welded in.

The top has a raised rim one inch high, which makes the cabinet safe for telephones and miscellaneous articles.

The shelves have flanged edges for strength, and are adjustable for height on 3 in. centers. They are attached by bolts. The door has a high-grade cylinder lock.

Dimensions: 24 in. wide, 36 in. high and 16 in. deep. Shipping weight, 90 lbs.

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824 Marine Tr. Bldg.

*CHICAGO OFFICE
1114 Steger Bldg.

*CLEVELAND OFFICE
806 Swetland Bldg.

*DETROIT OFFICE
935 Majestic Bldg.

NEW YORK OFFICE
50 Church Street

ST. LOUIS OFFICE
1633 Boatmen's Bank Bldg.

PITTSBURGH OFFICE
1415 Oliver Bldg.

BALTIMORE OFFICE
1421 Munsey Bldg.

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